Research Report 1301



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# SCALING ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB) FORM 8AX

Milton H. Maier and Frances C. Grafton

PERSONNEL UTILIZATION TECHNICAL AREA

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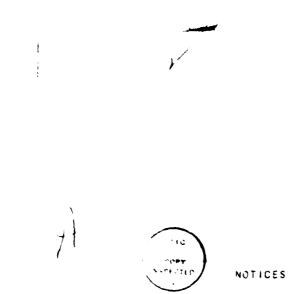
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| New forms of the Armed Services Vocational Aptimplemented for operational use on 1 October 1980. calibration of the new forms based on a sample of on a combined sample of applicants and recruits. were conducted on samples of enlistees and of high calibration efforts were in close agreement in the through 30th percentile scores). The results indi | This report covers the applicants for enlistment and Independent scaling efforts school students. The three critical score region (10th |
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# Research Report 1301

# SCALING ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB) FORM 8AX

Milton H. Maier and Frances C. Grafton

Submitted by:
Joyce L. Shields, Chief
PERSONNEL UTILIZATION TECHNICAL AREA

Approved by:
Cecil Johnson, Director
MANPOWER AND PERSONNEL
RESEARCH LABORATORY

U.S. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES 5001 Eisenhower Avenue, Alexandria, Virginia 22333

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ARI Research Reports and Technical Reports are intended for sponsors of R&D tasks and for other research and military agencies. Any findings ready for implementation at the time of publication are presented in the last part of the Brief. Upon completion of a major phase of the task, formal recommendations for official action normally are conveyed to appropriate military agencies by briefing or Disposition Form.

The accuracy of the ASVAB score scale is critical because of the widespread use of the scores throughout the Department of Defense. ASVAB scores are used for setting enlistment standards, reporting the quality of enlisted accessions, and historical tracking of the quality of accessions back to 1950, when the score scale was first developed. The ASVAB was introduced for interservice use to test applicants for enlistment in 1976. The score scale for that version of the ASVAB was found to be in serious error, with the consequent misstatements about the quality of enlisted accessions during the period 1976 until October 1980.

With the implementation of new forms of the ASVAB on 1 October 1980, the score scale has been corrected, and the original meaning of the ASVAB scores has been restored.

This research was done by the Personnel Utilization Technical Area in response to requirements of Army Project 2Q763731A791 and to special requirements of the Assistant Secretary of Defense for Manpower, Reserve Affairs, and Logistics.

JOSEPH ZEIDNER Technical Director

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#### Requirements:

To calibrate new forms of the Armed Services Vocational Aptitude Battery (ASVAB), using the traditional Department of Defense reference population as the basis for developing the ASVAB score scale.

#### Procedure:

The new ASVAB (form 8AX) was administered to a sample of applicants for enlistment in January-February 1980 at Armed Forces Examining and Entrance Stations (AFEES) selected to be geographically representative. The Armed Forces Qualification Test (AFQT) form 7A was also administered in counterbalanced order for use as the reference test. The equipercentile equating technique, with smoothing of the score distributions, was used to calibrate ASVAB-8AX.

### Findings:

The data were edited to remove examinees with deviant test scores and the calibration completed on the cleaned-up sample (N=2375). Independent calibrations of ASVAB 8AX were completed for samples of service recruits and high school students in grades 11 and 12. The results of the three calibration efforts were similar, especially in the bottom third of the score range, which is where the services make most of their selection decisions. The final conversion from ASVAB raw scores (number of items correct) to standard and percentile scores was based on the combined sample of applicants and recruits (N=5375).

### Utilization:

The new forms of the ASVAB, with the score scale based on traditional reference population, were implemented for operational use on 1 October 80. The new tests are used to help determine qualification for enlistment and eligibility for assignment to skill specialty training as well as for retesting of in-service personnel.

# SCALING ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB) FORM 8AX

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#### INTRODUCTION

The Armed Services Vocational Aptitude Battery (ASVAB) is used by all military services to help determine mental qualification for enlistment. The ASVAB provides an Armed Forces Qualification Test (AFQT) score and aptitude composite scores. The AFQT, a measure of general trainability, serves a dual purpose: one use is as a preliminary screen for enlistment and the second is for reporting the quality of accessions, with historical comparisons dating back to World War II.

The score scale for the ASVAB is referenced to the World War II mobilization population. Since WWII the various forms of the AFQT and the ASVAB have been calibrated to that population. The use of a constant reference population permits the military services to maintain standards for enlistment and assignment to job specialties, even though both test forms and overall quality of accessions have been changed from time to time.

The first inter-service version of the ASVAB (forms 6 and 7) was implemented on 1 January 1976 for selecting and classifying applicants for enlistment. These scores, as for predecessor tests, were to be referenced or calibrated to the traditional reference population. Within a few months of implementation, however, the scaling of the AFQT score was found to be in error at the upper end of the score range. A correction was applied to the table for converting AFQT raw scores to percentile scores, which reduced the percentage of accessions in the upper half of the score range. After some time it became apparent that the bottom half of the score range was also in error. The extent of this scaling error, which resulted in higher percentile scores than warranted as compared to the reference population, was documented in spring 1980.1

<sup>1</sup>The reports that confirmed the ASVAB 6/7 scaling problem are:

A) Sims, W. H. and Truss, A. R. A Reexamination of the Normalization of the Armed Services Vocational Aptitude Battery (ASVAB) Forms 6, 7, 6E and 7E. CNS 1152. Alexandria, VA., Center for Naval Analyses, April 1980.

B) Maier, M. H. and Grafton, F. C. Renorming ASVAB 6/7 at Armed Forces Examining and Entrance Stations. Technical Memorandum 80-1. Washington, D.C.: Directorate for Accession Policy, Office of the Secretary of Defense, August 1980.

C) Boldt, R. F. Scaling of the Armed Services Vocational Aptitude Battery Form 7, and General Classification Test Form 1C to the Armed Forces Qualification Test Scale. Technical Memorandum 80-2. Washington, D.C.: Directorate for Accession Policy, Office of the Secretary of Defense, August 1980.

The manpower implications of an incorrect scaling of ASVAB can be serious. For example, the services constrain the number of marginal persons (below average scores on the AFQT, labeled as AFQT category IV). Based on the incorrectly scaled AFQT scores, the Department of Defense reported that only about six percent of all accessions were in AFQT category IV. When the ASVAB was correctly scaled to the reference population, however, the percentage was about 30 percent, or five times as high.

New forms of the ASVAB have been prepared for operational use. Personnel management throughout the Department of Defense was concerned that the score scale for the new forms be properly calibrated to the reference population, which would maintain the traditional meaning of the scores for selection and classification purposes. Whereas normally only one research effort would be undertaken to calibrate a new test version, three independent efforts were conducted for the new forms of the ASVAB. These three efforts were based on three different samples: (a) applicants for enlistment, tested at Armed Forces Examining and Entrance Stations (AFEES); (b) new recruits who had just entered the Armed Services, tested at reception centers; and (c) high school students in grades 11 and 12, tested in geographically dispersed schools. The results based on applicants for enlistment and the combined sample of applicants and recruits are described in this report. The other efforts are described in other reports. 2

#### **PROCEDURES**

Sample. A sample of AFEES, where applicants are processed prior to enlistment, was selected to be geographically representative of the United States. The list of AFEES and the number of applicants desired from each are shown in Table 1. Also shown are the number tested and the number in the final sample from each AFEES. Applicants may be tested at the AFEES itself or at mobile testing sites. The latter are staffed by military testing personnel or by civilians from the Office of Personnel Management. Applicants processed at sites staffed by the Office of Personnel Management were not included in the sample because of contractual restrictions; the contract does not cover the cost of administering extra experimental tests as is required for efforts of this type. The sample size was 2620 male applicants for all services tested during January and February 1980.

<sup>2</sup> 

A) Sims, W. H. and Truss, A. R. Normalization of the Armed Services Vocational Aptitude Battery (ASVAB) Forms 8, 9, and 10 using a sample of Service Recruits. CRC 438. Alexandria, VA: Center for Naval Analyses, December 1980.

B) Boldt, R. F. Scaling of the AFQT composite of the Armed Services Vocational Aptitude Battery Form 8 in a High School Population. Technical Memorandum 80-3. Washington, DC: Directorate for Accession Policy, Office of the Secretary of Defense, September 1980.

Table l
SAMPLE OF AFEES FOR CALIBRATING ASVAB-8AX

| AFEES             | Male Quota | Number Tested | Number in<br>Final Sample |
|-------------------|------------|---------------|---------------------------|
| Fort Hamilton     | 350        | 339           | 312                       |
| Fort Jackson      | 200        | 205           | 187                       |
| Miami             | 300        | 334           | 292                       |
| Springfield, MA   | 125        | 125           | 114                       |
| New Haven         | 150        | 150           | 142                       |
| New Orleans       | 200        | 226           | 201                       |
| Kansas City       | 100        | 0             | 0                         |
| Indianapolis      | 150        | 185           | 157                       |
| Omaha             | 125        | 123           | 118                       |
| Houston           | 225        | 94            | 87                        |
| Seattle           | 75         | 78            | 72                        |
| Los Angeles       | 500        | 635           | 577                       |
| Phoenix           | 100        | 99            | 90                        |
| AFEES unidentifie | d          | 27            | 26                        |
|                   |            | <del></del>   |                           |
| TOTAL             | 2600       | 2620          | 2375                      |

Prior to administratrion of the experimental tests, each AFEES was visited by a representative from one of the service research laboratories or from the Military Enlistment Processing Command, which has the responsibility for the AFEES and all enlistment processing. They briefed AFEES personnel on the importance of the data collection and monitored at least one administration of the experimental tests. All monitors submitted a report on the visit, and the reports uniformly stated that test sessions monitored by them conformed to good testing practices.

Variables. All applicants in the sample were administered AFQT-7A (used from 1960 until 1973 as the first screen for inductees and enlistees) as the reference (or old) test, and a new form of the ASVAB, called form 8AX. The subtests in ASVAB-8AX are described in Table 2. ASVAB-8AX requires about three hours to administer, and AFQT-7A requires approximately one hour. These two tests were administered in counterbalanced order. On the following day, the applicants were administered the operational ASVAB (form 6 or 7) to determine if they met the standards for enlistment. A Privacy Act statement was read to applicants prior to administration of the experimental tests.

ASVAB-8AX is one form of the new version. Six forms of the AFQT subtests (Word Knowledge, Arithmetic Reasoning, Paragraph Comprehension, and Numerical Operations) and three forms of the remaining subtests have been developed. The counterpart subtests in each form are intended to be parallel. The parallelism of the versions, along with the accuracy of the score scale, will be verified on the samples of applicants coincident with operational implementation of ASVAB 8/9/10.

Statistical Analysis. Prior to computation of the scaling of ASVAB-8AX, the data were edited to identify scores that were suspected of being in error because of faulty test administration or different levels of motivation for the various tests. Scores on speeded tests are especially prone to be in error because of mistiming, which would distort the conversion of the ASVAB scores. Individuals with subtest scores that deviated significantly from expected values were deleted from the sample.

The technique used for calibrating ASVAB-8AX to AFQT-7A scores is called equipercentile equating, which consists of comparing the cumulative frequency distribution of the new test to that of the old, and converting raw scores (number of items correct) on the new test to equivalent scores on the old or reference test.

#### RESULTS

The distribution of reference test scores for the applicant sample is shown in Table 3, along with distributions of two earlier applicant samples. Since the samples of applicants shown in Table 3 were similar to each other, the scaling of the new ASVAB should generalize to applicants of this era.

Table 2
SUBTESTS IN ASVAB 8/9/10

| Subtest                 | No. of Items | Time Limit | Description   |
|-------------------------|--------------|------------|---|
| General Science         | 25           | 11         | Knowledge of physical and biological sciences.  |
| Arithmetic Reasoning    | 30           | 36         | Word problems that emphasize reasoning rather than mathematical skill.                                |
| Word Knowledge          | 35           | 11         | Understanding the meaning of words.   |
| Paragraph Comprehensio  | n 15         | 13         | Understanding the meaning of paragraphs.  |
| Numerical Operations    | 50           | 3          | A speeded test of the four arithmetic operations—addition, subtraction, division, and multiplication. |
| Coding Speed            | 84           | 7          | A speeded test to match words and numbers.  |
| Auto/Shop Information   | 25           | 11         | Knowledge of automobiles, shop procedures and tools.  |
| Mathematics Knowledge   | 25           | 24         | Knowledge and skills in algebra, geometry, and fractions.   |
| Mechanical Comprehensio | on 25        | 19         | Understanding of mechanical principles, such as gears, levers, pulleys, and hydraulics.               |
| Electronics Information | 20           | 9          | Knowledge of electricity, radio principles and electronics.   |

Prior to developing the conversion tables for converting raw scores to scaled scores, the data were edited to identify cases where scores were suspect. The original sample size prior to editing was 2620 male applicants. Cases were considered deviant if the predicted AFQT or Numerical Operations score differed by more than 2 standard errors of estimate from the observed score. After deleting the deviant cases the sample size was reduced to 2375. The statistics used to identify deviant cases are shown in Table 4.

Calibration of AFQT-8AX. The conversion from AFQT-8AX raw score to scaled score was computed (a) for the full sample, (b) after deleting cases based on deviant AFQT-8AX raw scores, and (c) after deleting additional cases with deviant Numerical Operations scores. The conversions were computed only for the AFQT score (AFQT is composed of the Arithmetic Reasoning, Word Knowledge, Paragraph Comprehension, and Numerical Operations subtests). The three conversions are shown in Table 5.

The results shown in Table 5 are highly similar, which suggests that deleting deviant cases had little effect on the scaled scores. Because the sample with deviant cases removed is expected to contain fewer errors, the conversions in this effort were based on this sample. Unless otherwise specified, all subsequent results for the applicant sample in this report are based on this "cleaned up" sample of 2375 cases.

The cumulative frequency distributions for the reference test, AFQT-7A, and AFQT-8AX are shown in Figure 1. The actual frequencies are plotted, along with the smoothed lines that removed minor fluctuations in the sample. Percentile scores for AFQT-8AX were obtained by reading the AFQT-7A percentile scores that had the same cumulative frequency as AFQT-8AX raw scores. These are the values shown in the final column of Table 5. The number of cases at the top of the AFQT-7A score scale was too small to obtain a reliable calibration of AFQT-8AX above a percentile score of 95. The percentile scores shown in Table 5 therefore are truncated at the 95th percentile score.

Two additional independent calibrations of AFQT-8AX were computed; one was on a sample of service recruits and the second on a sample of high school students. The results for service recruits are presented by Sims and Truss and those for high school students by Boldt. The calibrations for the three samples (applicants, recruits, and high school students) are shown in Figure 2. The conversion from raw score to percentile score is similar in the bottom of the score range for all three samples. Above a percentile score of about 20, the conversion for high school students becomes more difficult; that is, a given raw score converts to a lower percentile score than in the other two samples. The conversions for applicants and recruits remains similar throughout the score range, except at the top of the score range where no conversion could be computed for the sample of applicants.

<sup>3</sup> 

a. Sims & Truss, Ibid

b. Boldt, Ibid

Table 3
DISTRIBUTIONS OF AFQT-7A SCORES AT AFEES

| AFQT-7A      | SA        | MPLE      |              |
|--------------|-----------|-----------|--------------|
| Decile       | June 1979 | July 1979 | Jan-Feb 1980 |
| 1-10         | 11.5%     | 11.1%     | 11.2%        |
| 11-20        | 24.6      | 23.7      | 24.4         |
| 21-30        | 13.2      | 14.5      | 13.9         |
| 31-40        | 11.3      | 11.4      | 10.9         |
| 41-50        | 8.3       | 8.4       | 8.4          |
| 51-60        | 8.7       | 9.0       | 9.6          |
| 61-70        | 7.4       | 6.8       | 7.3          |
| 71-80        | 5.9       | 6.1       | 6.1          |
| 81-90        | 6.8       | 6.8       | 6.3          |
| 91-99        | 2.1       | 2.2       | 1.9          |
| TOTAL NUMBER | 5069      | 5521      | 2375         |

Table 4

REGRESSION STATISTICS USED TO IDENTIFY DEVIANT TEST SCORES

# A. Predict AFQT-8AX from AFQT-7A

14.7 6.60

AR

| Test | Mean             | Std. Dev.    | <u> </u> |                 | Std. Error<br>of Estimate | <u> </u> |
|------|------------------|--------------|----------|-----------------|---------------------------|----------|
| 8AX  | 61.4             | 21.45        |          |                 |                           |          |
|      |                  |              |          | .789            | 13.17                     | 2620     |
| 7A   | 49.3             | 21.74        |          |                 |                           |          |
|      |                  |              |          |                 |                           |          |
| В.   | Predict Numerica | 1 Operations | (NO)     | from Arithmetic | Reasoning                 | (AR)     |
| NO   | 32.2             | 11.29        |          |                 |                           |          |

.555

2481

9.40

Table 5

CALIBRATIONS OF AFQT-8AX IN EDITED SAMPLES OF APPLICANTS

|                       | Pe |     | entil<br>ore      | l <b>e</b>   |    | rcen<br>Scor |    |              |            | cent<br>ore | ile        |              | Perc<br>Sco |     | le |
|-----------------------|----|-----|-------------------|--------------|----|--------------|----|--------------|------------|-------------|------------|--------------|-------------|-----|----|
|                       |    | Sar | nple <sup>6</sup> | ı            |    | Samp         | le |              | Sa         | mple        |            |              | Sam         | ple |    |
| AFQT 8AX<br>Raw Score | A  | В   | С                 | Raw<br>Score | A  | В            | С  | Raw<br>Score | A          | В           | С          | Raw<br>Score | A           | В   | С  |
| 0-18                  | 1  | 1   | 1                 | 40           | 13 | 13           | 12 | 62           | 29         | 29          | 28         | 84           | 63          | 63  | 65 |
| 19                    | 2  | 2   | 1                 | 41           | 14 | 14           | 12 | 63           | <b>3</b> 0 | 30          | 30         | 85           | 64          | 64  | 66 |
| 20                    | 3  | 3   | 1                 | 42           | 14 | 14           | 13 | 64           | 31         | 31          | 31         | 86           | 66          | 67  | 69 |
| 21                    | 3  | 3   | 1                 | 43           | 15 | 14           | 13 | 65           | 32         | 32          | 32         | 87           | 69          | 70  | 71 |
| 2′2                   | 3  | 4   | 1                 | 44           | 15 | 15           | 14 | 66           | 34         | 33          | 33         | 88           | 72          | 72  | 73 |
| 23                    | 4  | 4   | 1                 | 45           | 16 | 16           | 14 | 67           | 36         | 34          | 35         | 89           | 74          | 73  | 75 |
| 24                    | 4  | 5   | 2                 | 46           | 16 | 16           | 15 | 68           | 38         | 37          | 36         | 90           | 76          | 75  | 77 |
| 25                    | 5  | 5   | 3                 | 47           | 17 | 17           | 15 | 69           | 40         | 38          | 37         | 91           | 78          | 78  | 79 |
| 26                    | 6  | 5   | 4                 | 48           | 17 | 17           | 16 | 70           | 42         | 40          | 41         | 92           | 80          | 80  | 80 |
| 27                    | 7  | 6   | 5                 | 49           | 18 | 17           | 16 | 71           | 44         | 43          | 42         | 93           | 81          | 81  | 81 |
| 28                    | 7  | 7   | 5                 | 50           | 18 | 18           | 17 | 72           | 46         | 46          | 44         | 94           | 82          | 82  | 83 |
| 29                    | 8  | 8   | 6                 | 51           | 19 | 18           | 17 | 73           | 48         | 48          | 46         | 95           | 83          | 85  | 85 |
| 30                    | 8  | 8   | 6                 | 52           | 19 | 19           | 18 | 74           | 49         | 49          | 48         | 96           | 85          | 87  | 87 |
| 31                    | 9  | 9   | 7                 | 53           | 20 | 20           | 19 | 75           | 50         | 50          | 50         | 97           | 87          | 89  | 89 |
| 32                    | 9  | 9   | 7                 | 54           | 21 | 21           | 20 | 76           | 51         | 51          | 51         | 98           | 89          | 89  | 91 |
| 33                    | 10 | 10  | 8                 | 55           | 22 | 22           | 21 | 77           | 53         | 52          | 53         | 99           | 91          | 91  | 93 |
| 34                    | 10 | 10  | 9                 | 56           | 23 | 23           | 22 | 78           | 54         | 54          | 54         | 100          | 92          | 92  | 94 |
| 35                    | 11 | 11  | 9                 | 57           | 24 | 24           | 23 | 79           | 56         | 56          | 56         | 101          | 93          | 93  | 95 |
| 36                    | 11 | 11  | 10                | 58           | 25 | 25           | 24 | 80           | 58         | 58          | 57         | 102          | 94          | 95  | 95 |
| 37                    | 12 | 12  | 10                | 59           | 26 | 26           | 25 | 81           | 60         | 60          | 5 <b>9</b> | 103-10       | 5b          |     |    |
| 38                    | 12 | 12  | 11                | 60           | 27 | 27           | 26 | 82           | 61         | 62          | 61         |              |             |     |    |
| 39                    | 13 | 13  | 11                | 61           | 28 | 28           | 27 | 83           | 62         | 62          | 63         |              |             |     |    |

## NOTE:

a Sample A contains all cases, N=2620.

Sample B has persons with deviant AFQT scores removed N=2481.

Sample C has persons with deviant AFQT and NO scores removed N=2375.

b Due to lack of cases no conversion for these raw scores was computed.

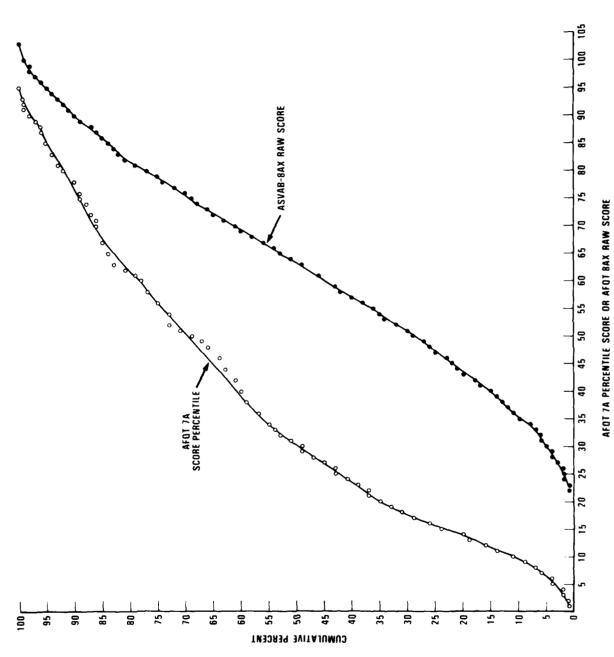


Figure 1. Cumulative frequency distribution of AFQT-7A and AFQT-8AX scores in applicant sample

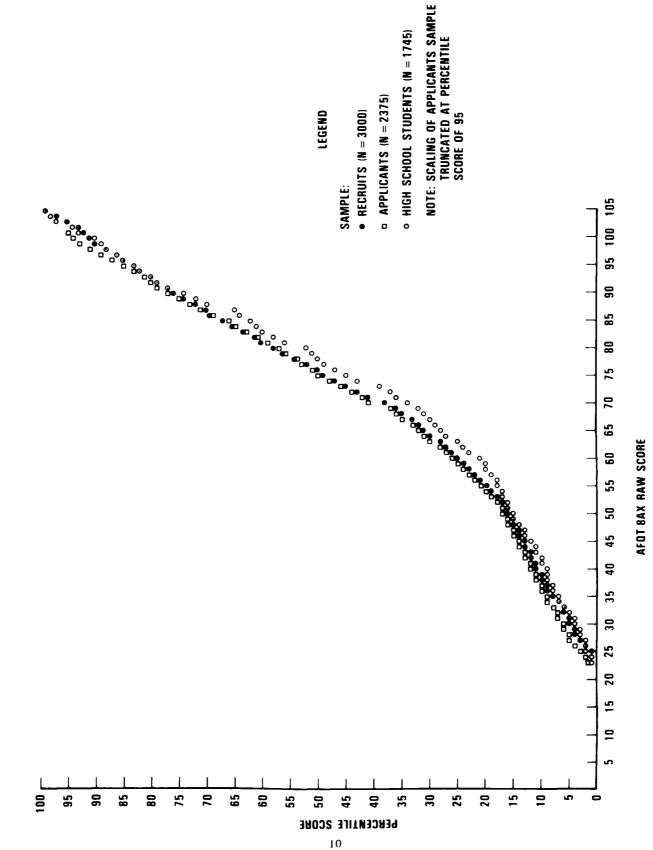


Figure 2. Calibration of AFQT-8AX in three independent samples

Final Scaling of AFQT-8AX. The final scaling of AFQT-8AX was based on the combined sample of applicants and recruits. Cases with deviant scores on AFQT-8AX or Numerical Operations had also been removed from the recruit sample and the final combined sample consisted of 5375 cases. The combined sample had an adequate number of cases to permit reliable conversions throughout the score range. The distributions of AFQT-7A reference test scores for the separate and combined samples are shown in Table 6. The cumulative frequency distribution of the AFQT-7A and AFQT-8AX scores for the combined sample are shown in Figure 3. Employing the usual equipercentile technique, AFQT-8AX raw scores were scaled to the traditional reference population. The final conversion of AFQT-8AX raw score to percentile score is shown in Table 7 and Figure 4. This conversion based on the combined sample is used operationally for obtaining AFQT scores from ASVAB 8/9/10.

Subtest Standard Scores. A new feature of ASVAB 8/9/10 is that subtest raw scores are converted to standard scores prior to computing aptitude composite scores. In earlier versions of ASVAB, subtest raw scores (number of items correct) were summed and converted to aptitude composite scale scores (standard scores for Army and Marine Corps and percentile scores for Air Force). The use of subtest raw scores meant that the entire battery had to be replaced or rescaled at the same time; however, by converting subtest raw scores to standard scores fries to computing composite scores, individual subtests can be replaced one of a time, and the computation of composite scaled scores is not affected. New versions of subtests, therefore, can readily be introduced without going through the arduous process of rescaling the entire test battery.

All subte r raw scores were scaled using a linear transformation to have a mean of 50 and standard deviation 10 in the reference population. The procedures ter computing subtest standard scores were as follows: (a) The AFQT-7A scores in the combined sample of applicants and recruits were weighted to reproduce the distribution of AFQT scores in the reference population. The weights for the combined sample are shown in Table 8. As is typical of applicants and recruits in this era, the sample is overrepresented in the lower deciles, and underrepresented in the upper deciles, as compared to the reference population. Correspondingly, the weights in the bottom half are less than unity, while those in the upper half are greater than unity. (b) Subtest means and standard deviations were computed on the sample. Subtest means and standard deviations in the weighted sample are shown in Table 8. Subtest intercorrelations are shown in Appendix A. (c) The conversion from the subtest raw scores to standard scores were computed using the conventional formula:

StdSc = 
$$50 + 10 (X-\overline{X})/S_X$$
,  
where --

StdSc is the subtest standard score ranging from 20 through 80.

10 is the standard deviation of the standard scores for each subtest.

50 is the mean standard score for each subtest.

X is the subtest raw score.

 $\bar{X}$  is the subtest mean raw score in the weighted sample.  $S_{\mathbf{x}}$  is the subtest raw score standard deviation in the weighted sample.

Table 6

DISTRIBUTION OF AFQT-7A SCORES IN EDITED SAMPLES

## SAMPLE

| AFQT-7A      | T-7A Recruits |      | Appli | cants | Combined |      |  |
|--------------|---------------|------|-------|-------|----------|------|--|
| Decile       | Freq          |      | Freq  | %     | Freq     | %    |  |
| 1-10         | 94            | 3.1  | 266   | 11.2  | 360      | 6.7  |  |
| 11-20        | 486           | 16.2 | 579   | 24.4  | 1065     | 19.8 |  |
| 21-30        | 420           | 14.0 | 330   | 13.9  | 750      | 14.0 |  |
| 31-40        | 425           | 14.2 | 260   | 10.9  | 685      | 12.7 |  |
| 41-50        | 302           | 10.1 | 201   | 8.4   | 503      | 9.4  |  |
| 51-60        | 356           | 11.9 | 227   | 9.6   | 583      | 10.8 |  |
| 61-70        | 301           | 10.0 | 174   | 7.3   | 475      | 8.8  |  |
| 71-80        | 252           | 8.4  | 144   | 6.1   | 396      | 7.4  |  |
| 81-90        | 274           | 9.1  | 150   | 6.3   | 424      | 7.9  |  |
| 91-99        | 90            | 3.0  | 44    | 1.9   | 134      | 2.5  |  |
| TOTAL NUMBER | 3000          |      | 2375  |       | 5375     |      |  |

Table 7

FINAL CALIBRATION OF AFQT-8AX IN COMBINED SAMPLE OF RECRUITS AND APPLICANTS

| Raw Score  | Percentile<br>Score | Raw Score  | Percentile<br>Score | Raw Score | Percentile<br>Score |
|------------|---------------------|------------|---------------------|-----------|---------------------|
|            |                     |            |                     |           |                     |
| 0-21       | 1                   | 61         | 26                  | 101       | 93                  |
| 22         | 1                   | 62         | 28                  | 102       | 95                  |
| 23         | 2                   | 63         | 29                  | 103       | 97                  |
| 24         | 3                   | 64         | 30                  | 104       | 98                  |
| 25         | 3                   | 65         | 31                  | 105       | 99                  |
| 26         | 4                   | 66         | 33                  |           |                     |
| 27         | 4                   | 67         | 34                  |           |                     |
| 28         | 5                   | 68         | 36                  |           |                     |
| 29         | 5                   | 69         | 38                  |           |                     |
| 30         | 6                   | 70         | 40                  |           |                     |
| 31         | 6                   | 71         | 42                  |           |                     |
| 32         | 7                   | 72         | 44                  |           |                     |
| 33         | 7                   | 73         | 46                  |           |                     |
| 34         | 8                   | 74         | 48                  |           |                     |
| 35         | 8                   | <b>7</b> 5 | 49                  |           |                     |
| 36         | 9                   | 76         | 50                  |           |                     |
|            | 9                   | 76<br>77   | 50<br>52            |           |                     |
| 37         |                     |            |                     |           |                     |
| 38         | 10                  | 78<br>70   | 54                  |           |                     |
| 39         | 10                  | 79         | 56                  |           |                     |
| 40         | 11                  | 80         | 58                  |           |                     |
| 41         | 12                  | 81         | 59                  |           |                     |
| 42         | 12                  | 82         | 61                  |           |                     |
| 43         | 13                  | 83         | 63                  |           |                     |
| 44         | 13                  | 84         | 65                  |           |                     |
| 45         | 14                  | 85         | 66                  |           |                     |
| 46         | 14                  | 86         | 68                  |           |                     |
| 47         | 15                  | 87         | 70                  |           |                     |
| 48         | 15                  | 88         | 72                  |           |                     |
| 49         | 16                  | 89         | 74                  |           |                     |
| 50         | 16                  | 90         | 76                  |           |                     |
| 51         | 17                  | 91         | 78                  |           |                     |
| 52         | 18                  | 92         | 80                  |           |                     |
| 53         | 19                  | 93         | 82                  |           |                     |
| 5 <b>3</b> | 20                  | 94         | 83                  |           |                     |
| 55         | 20                  | 95         | 85                  |           |                     |
| 56         | 21                  | 96         | 86                  |           |                     |
| 57         | 22                  | 97         | 87                  |           |                     |
| 58         | 23                  | 98         | 88                  |           |                     |
|            | 24                  |            | 90                  |           |                     |
| 59         | 25<br>25            | 99         |                     |           |                     |
| 60         | ۷)                  | 100        | 91                  |           |                     |

Table 8
STATISTICS FOR COMPUTING SUBTEST STANDARD SCORES

## A. ASVAB Subtest Statistics

| ASVAB                    |      | Standard  | No. of |
|--------------------------|------|-----------|--------|
| Subtest                  | Mean | Deviation | Items  |
| General Science          | 16.2 | 5.09      | 25     |
| Arithmetic Reasoning     | 17.8 | 7.20      | 30     |
| Word Knowledge           | 25.7 | 7.66      | 35     |
| Paragraph Comprehension  | 10.5 | 3.44      | 15     |
| Numerical Operations     | 36.0 | 10.39     | 50     |
| Coding Speed             | 43.1 | 16.12     | 84     |
| Auto/Shop Information    | 16.4 | 5.60      | 25     |
| Mathematics Knowledge    | 12.5 | 5.95      | 25     |
| Mechanical Comprehension | 15.5 | 5.57      | 25     |
| Electronics Information  | 12.5 | 4.32      | 20     |
| Verbal                   | 36.2 | 10.61     | 50     |

# B. AFQT-7A (Reference Test) Score Distribution

| Decile       | Frequency | <u>Weight</u> a |
|--------------|-----------|-----------------|
| 1-10         | 360       | 1.49            |
| 11-20        | 1065      | 0.50            |
| 21-30        | 750       | 0.72            |
| 31-40        | 685       | 0.78            |
| 41-50        | 503       | 1.07            |
| 51-60        | 583       | 0.92            |
| 61-70        | 475       | 1.13            |
| 71-80        | 396       | 1.36            |
| 81-90        | 424       | 1.27            |
| 91-99        | 134       | 4.01            |
| TOTAL NUMBER | N≈5375    |                 |

 $<sup>^{\</sup>mathbf{a}}$  Weight applied to obtain uniform distribution of AFQT-7A scores

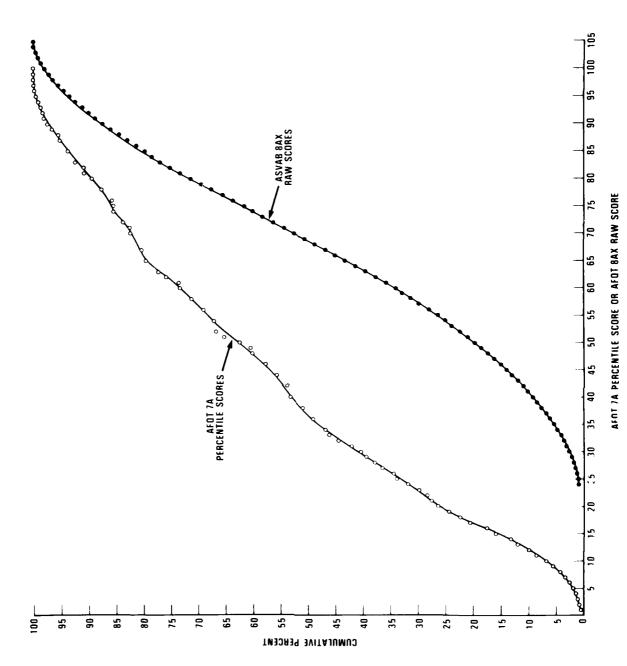


Figure 3. Cumulative frequency distribution of AFQT 7A and AFQT-8AX scores in combined sample of recruits and applicants

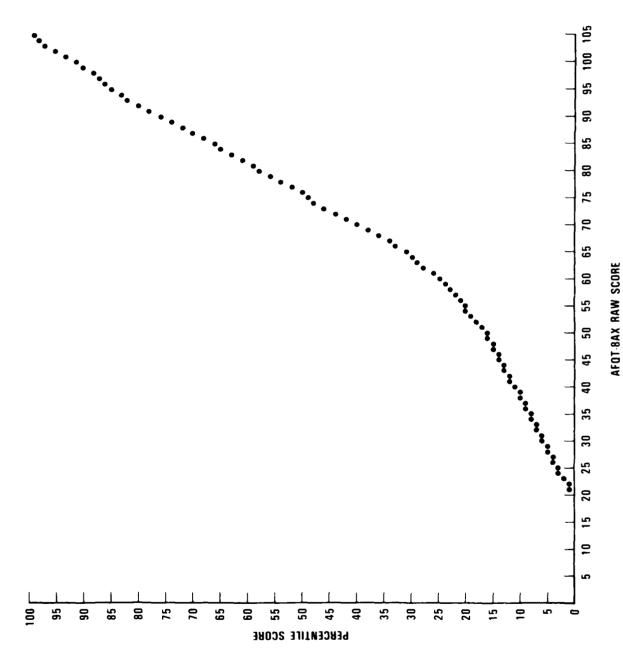


Figure 4. Final calibration of AFQT-8AX based on combined sample of recruits and applicants (N  $\approx 5375$ )

The conversion from raw score to subtest standard score is shown in Figure 5 for the Arithmetic Reasoning (AR) subtest in the separate samples of recruits and applicants and in the combined sample. The three conversions are almost identical. A separate conversion was computed for each subtest in the samples of recruits and applicants and in the combined Sample. As for Arithmetic Reasoning (AR) the conversions in the three samples are highly similar. The conversion tables for all subtest are shown in Appendix B.

Aptitude Composite Scores. Each service has developed its own set of aptitude composites to classify enlistees to job training programs. The services also use composites to supplement the AFQT for determining qualification for enlistment. The aptitude composites used by each service are shown in Table 9. Note that three composites contain identical subtests for all services: Electronics Repair (EL), Clerical/Administration (CL or A), and General or General Technical (G or GT). The services have moved in the direction of using the same subtests for classifying enlistees to similar jobs.

Aptitude composite scores are computed by summing the subtest standard scores. The Navy uses these sums directly for classifying enlistees, while the other services convert the sums to their traditional score scales. The Army and Narine Corps use a standard score scale with mean 100 and standard deviation 20. The Air Force uses a percentile score scale, the same as AFQT, except that the percentile scores are reported only in intervals of five units each. The score scales for aptitude composites, as for the AFQT, have been referenced to the traditional World War II mobilization population.

The procedures for computing the conversion from the sum of subtest standard scores to composite scores were as follows; (a) compute the cumulative frequency distribution of the sum of subtest standard scores for each composite; (b) convert the composite scores to percentile scores using the equipercentile equating technique and AFQT-7A as the reference test (analogous to scaling AFQT); (c) for the Army and Marine Corps transform the percentile scores to standard scores with mean 100 and standard deviation 20; for the Air Force the percentile scores are used directly with no further transformation. The equipercentile equating technique puts all composites on the same score scale as the reference population. The score scale for all composites are said to be "comparable" in that they are referenced to the same population. The conversion of the General (G or GT) composite score is shown in Figure 6 for the samples recruits and applicants and for the combined sample. The complete set of conversion tables from the sum of subtest standard sc(x) to  $cov_1(x)$  ite scores is at Appendix C. In each table of Appendix C, the first column shows the conversion for recruits, the second for applicants, and the third for the combined sample. The conversion for the combined sample has been adopted for operational use.

### DISCUSSION AND CONCLUSIONS

Representativeness of the sample. Issues pertaining to the maintenance of the ASVAB score scale with historical continuity are becoming more severe. One issue-that of a representative sample for constructing a score scale-was faced explicitly in this effort. Even though a sample of applicants is the

Table 9

APTITUDE COMPOSITES FOR EACH SERVICE

| Composite                              | Army        | Navy        | Air Force   | Marine Corps |
|--|-------------|-------------|-------------|--------------|
|  | Sub         | test        |             |              |
| Combat (CO)                            | CS+AR+MC+AS |             |             | NO+VE+AS     |
| Field Artillery (FA)                   | CS+AR+MK+MC |             |             | AR+VE+AS     |
| Electronics (E or EL)                  | AR+MK+EI+GS | AR+MK+EI+GS | AR+MK+EI+GS | AR+MK+EI+GS  |
| Operator/Food (OF)                     | NO+VE+MC+AS |             |             |              |
| Surveillance/ Communications (SC)      | NO+CS+VE+AS |             |             |              |
| Mechanical<br>Maintenance (MM)         | NO+EI+MC+AS |             |             | AR+EI+MC+AS  |
| Maintenance (M)                        |             | VE+MC+AS    | MC+GS+2AS   |              |
| General Maintenance (GM)               | MK+EI+GS+AS |             |             | MK+EI+AS+GS  |
| Clerical (CL)/ Administration (A)      | NO+CS+VE    | NO+CS+VE    | NO+CS+VE    | NO+CS+VE     |
| Skilled Technical (ST)                 | VE+MK+MC+GS |             |             |              |
| General Technical (GT)/<br>General (G) | VE+AR       | VE+AR       | VE+AR       | VE+AR        |

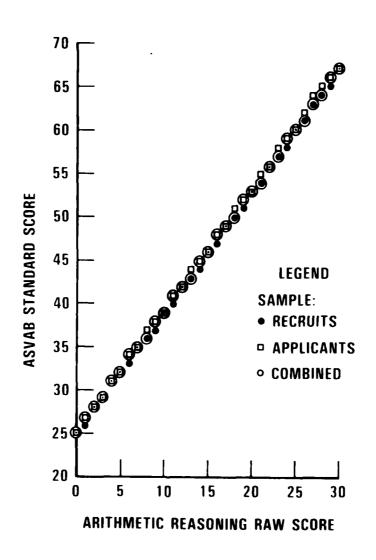


Figure 5. Converting Arithmetic Reasoning (AR) raw scores to subtest standard scores.

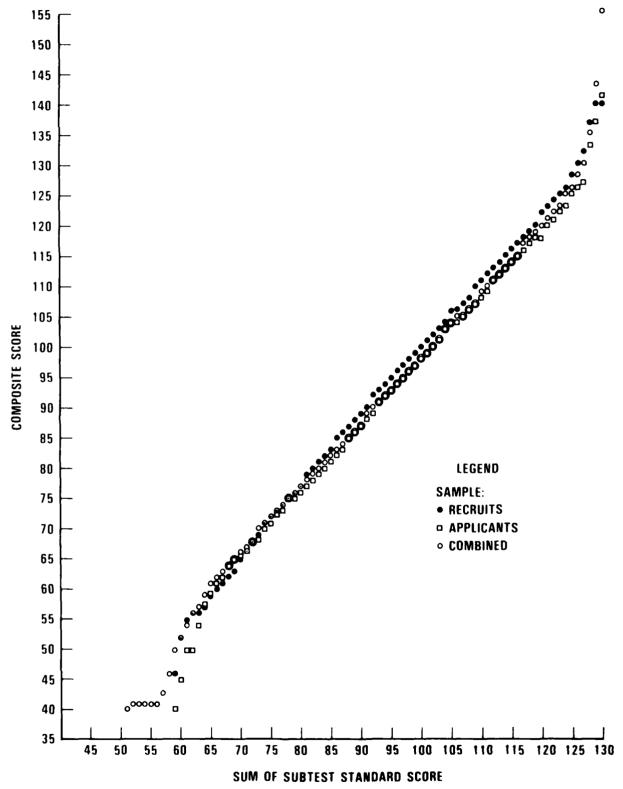


Figure 6. Calibration of General Technical (G or GT) aptitude composite

most representative sample of the reference population that is readily available, it suffers from a high degree of self-selection that restricts the distribution of scores in the upper end. Another source of nonrepresentativeness is the social and cultural mix of the applicants. About half the applicants in this sample were members of a cultural minority (over a third were black persons, and about 10 percent hispanics). Although these factors do not pose large problems as far as can be determined analytically in relating the ASVAB scores to the traditional score scale, they nonetheless do put more of a burden on claims that the score has remained invariant over the past decades.

When earlier forms of the AFQT, from 1950 until 1960, were calibrated, these sampling problems did not arise because there was a pool of registrants (persons registering for the draft) who were available to participate in the norming efforts. They were reasonably representative of the reference population, and a greater degree of research control was possible with the pool of registrants as compared to applicants for enlistment, who must be actively recruited.

A reasonable resolution to the sampling issues appears to have been worked out by pooling the samples of applicants and recruits, and by a careful editing of the data to delete cases with suspect scores. In the absence of an external criterion to evaluate the accuracy of the conversions, the results can be evaluated only by the standards of reasonableness and consistency from independent analyses. The conversions for the new ASVAB pass these tests, and the score scale for ASVAB 3/9/10 appears to maintain the same meaning as that traditionally used for the Department of Defense testing program.

One effect of a nonrepresentative sample was clear—high school students cannot be used for calibrating military tests. The calibration on high school students produced systematic differences from applicants and recruits. The precise nature of the differences in score distributions between students and the current military population has not been determined. Further analyses are required to evaluate the effects of education and experience on test score scales.

Because of the difficulties in obtaining representative samples in the current military testing environment, more research is required to develop improved procedures for data analysis that can lead to greater confidence in the results.

One promising technique is to have a continued program of calibrating individual subtests instead of trying to develop a whole new test battery at the same time. The burden on the accessioning system of administering short experimental subtests is relatively small, and enough cases could then be obtained to assure that the sample is representative. The new ASVAB, with subtest raw scores converted to standard scores, facilitates such a continual data collection procedure. Through this procedure score scales can be developed that elicit confidence in their historical comparability.

Equipercentile Equating Technique. The results for the recruit and applicant samples and for the combined sample are similar throughout most of the score range. Apparently with samples of this size, the equipercentile equating technique provides consistent results in spite of variation in the composition of the sample. The technique is robust and appears to be adequate for calibrating military tests.

Quality of the ASVAB. The concerns for accuracy in scaling ASVAB 8/9/10 naturally arose in the Defense Community because of the large error in scaling the version of ASVAB (forms 6 and 7) used with applicants for enlistment from January 1976 through September 1980. Personnel management supported the extra expense and operational burden to complete these efforts because of the incorrect operational decisions about qualification and the embarrassment associated with the inflation of scores on ASVAB 6 and 7.

In addition to the three independent efforts to scale ASVAB-8AX to AFQT-7A (applicants, recruits, and high school students), a large effort to verify the accuracy of the score scale is projected concurrent with implementation of the new forms. Each of the forms of the AFQT (there are six) will be equated to AFQT-7A in separate samples of about 2500 male applicants each. As each ASVAB form is used for the first time, AFQT-7A will be administered in counter-balanced order along with the new test. When this verification effort is completed, the scaling of ASVAB 8/9/10 to AFQT-7A will be accurately determined.

With all the concern for the quality of the ASVAB scoring system, ASVAB 8/9/10 will be more thoroughly evaluated than any other military test, and probably than any other single test battery. When all the research is completed, we will know about the utility of its scores for predicting success in job training courses, which is the usual criterion, and for predicting performance on the job, which has been the dream of testing psychologists, but seldom realized because until now no one was willing to bear the expense of developing and administering the necessary performance measures.

APPENDIX A Intercorrelations 1 of ASVAB Subtests for Applicant Sample (N=2375)

|                   | GS   | AR   | WK   | PC   | NO   | cs   | ASA  | MK   | MC   | EI   | VE   |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| GS                | 100  | 69   | 82   | 73   | 47   | 46   | 70   | 63   | 71   | 75   | 82   |
| AR                | 69   | 100  | 68   | 68   | 62   | 52   | 62   | 78   | 67   | 65   | 71   |
| WK                | 82   | 68   | 100  | 80   | 50   | 49   | 68   | 61   | 68   | 75   | 98   |
| PC                | 73   | 68   | 80   | 100  | 52   | 50   | 62   | 59   | 63   | 69   | 90   |
| NO                | 47   | 62   | 50   | 52   | 100  | 62   | 40   | 57   | 42   | 43   | 53   |
| cs                | 46   | 52   | 49   | 50   | 62   | 100  | 41   | 49   | 43   | 42   | 52   |
| AS                | 70   | 62   | 68   | 62   | 40   | 41   | 100  | 50   | 74   | 73   | 69   |
| MK                | 63   | 78   | 61   | 59   | 57   | 49   | 50   | 100  | 60   | 57   | 63   |
| MC                | 71   | 67   | 68   | 63   | 42   | 43   | 74   | 60   | 100  | 72   | 69   |
| EI                | 75   | 65   | 75   | 69   | 43   | 42   | 73   | 57   | 72   | 100  | 76   |
| VE                | 82   | 71   | 98   | 90   | 53   | 52   | 69   | 63   | 69   | 76   | 100  |
|                   | GS   | AR   | WK   | PC   | NO   | cs   | AS   | MK   | MC   | EI   | VE   |
| Mean <sup>2</sup> | 46.3 | 46.0 | 46.5 | 46.6 | 47.7 | 47.7 | 46.5 | 46.7 | 46.2 | 46.5 | 46.3 |
| S.D.              | 9.6  | 9.3  | 10.2 | 10.3 | 10.3 | 10.0 | 9.8  | 9.0  | 9.5  | 9.7  | 10.1 |

 $<sup>^{1}</sup>$  Decimals omitted  $^{2}$  Means and Standard deviations reported as standard scores with population mean of 50 and sigma of 10.

# APPENDIX B CONVERSION TABLES FOR SUBTEST STANDARD SCORES

ASVAB 8AX Conversion Table General Science (GS)

| Raw<br>Score |    | Standard Sc<br>Applicant |    | Raw<br>Score |    | Standard Sco<br>Applicant |    |
|--------------|----|--------------------------|----|--------------|----|---------------------------|----|
| 0            | 15 | 20                       | 20 | 13           | 43 | 44                        | 44 |
| 1            | 17 | 22                       | 20 | 14           | 45 | 46                        | 46 |
| 2            | 19 | 24                       | 22 | 15           | 47 | 48                        | 48 |
| 3            | 21 | 25                       | 24 | 16           | 49 | 50                        | 50 |
| 4            | 24 | 27                       | 26 | 17           | 51 | 52                        | 52 |
| 5            | 26 | 29                       | 28 | 18           | 53 | 54                        | 54 |
| 6            | 28 | 31                       | 30 | 19           | 55 | 55                        | 56 |
| 7            | 30 | 33                       | 32 | 20           | 57 | 57                        | 57 |
| 8            | 32 | 35                       | 34 | 21           | 59 | 59                        | 59 |
| 9            | 34 | 37                       | 36 | 22           | 62 | 61                        | 61 |
| 10           | 36 | 39                       | 38 | 23           | 64 | 63                        | 63 |
| 11           | 38 | 40                       | 40 | 24           | 66 | 65                        | 65 |
| 12           | 40 | 42                       | 42 | 25           | 68 | 67                        | 67 |

 $<sup>^{\</sup>mathrm{a}}$  Conversions based on the combined sample were implemented for operational use on 1 October 1980.

## APPENDIX B (Continued)

ASVAB 8AX Conversion Table Arithmetic Reasoning (AR)

| Raw<br>Score | Standard Sc<br>Recruits Applicant |    |    | Raw<br>Score | St<br>Recruits | e<br>Combined |    |
|--------------|-----------------------------------|----|----|--------------|----------------|---------------|----|
| 0            | 25                                | 25 | 25 | 16           | 47             | 48            | 48 |
| 1            | 26                                | 27 | 27 | 17           | 49             | 49            | 49 |
| 2            | 28                                | 28 | 28 | 18           | 50             | 51            | 50 |
| 3            | 29                                | 30 | 29 | 19           | 51             | 52            | 52 |
| 4            | 31                                | 31 | 31 | 20           | 53             | 53            | 53 |
| 5            | 32                                | 32 | 32 | 21           | 54             | 55            | 54 |
| 6            | 33                                | 34 | 34 | 22           | 56             | 56            | 56 |
| 7            | 35                                | 35 | 35 | 23           | 57             | 58            | 57 |
| 8            | 36                                | 37 | 36 | 24           | 58             | 59            | 59 |
| 9            | 37                                | 38 | 38 | 25           | 66             | 60            | 60 |
| 10           | 39                                | 39 | 39 | 26           | 61             | 62            | 61 |
| 11           | 40                                | 41 | 41 | 27           | 63             | 63            | 63 |
| 12           | 42                                | 42 | 42 | 28           | 64             | 65            | 64 |
| 13           | 43                                | 44 | 43 | 29           | 65             | 66            | 66 |
| 14           | 44                                | 45 | 45 | 30           | 67             | 67            | 67 |
| 15           | 46                                | 46 | 46 |              |                |               |    |

# APPENDIX B (Continued)

ASVAB 8AX Conversion Table Word Knowledge (WK)

| Raw<br>Score | Standard Sco<br>Recruits Applicant |    | ore<br>Combined | Raw<br>Score | St<br>Recruits | andard Score<br>Applicant | Combined |
|--------------|------------------------------------|----|-----------------|--------------|----------------|---------------------------|----------|
| 0            | 13                                 | 18 | 20              | 19           | 40             | 42                        | 41       |
| l            | 14                                 | 19 | 20              | 20           | 41             | 43                        | 43       |
| 2            | 16                                 | 2! | 20              | 21           | 43             | 44                        | 44       |
| 3            | 17                                 | 22 | 20              | 22           | 44             | 45                        | 45       |
| 4            | 19                                 | 23 | 22              | 23           | 46             | 47                        | 47       |
| 5            | 20                                 | 24 | 23              | 24           | 47             | 48                        | 48       |
| 6            | 22                                 | 25 | 24              | 25           | 48             | 49                        | 49       |
| 7            | 23                                 | 27 | 26              | 26           | 50             | 51                        | 50       |
| 8            | 24                                 | 28 | 27              | 27           | 51             | 52                        | 52       |
| 9            | 26                                 | 29 | 28              | 28           | 53             | 53                        | 53       |
| 10           | 27                                 | 30 | 30              | 29           | 54             | 54                        | 54       |
| 11           | 29                                 | 32 | 31              | 30           | 56             | 56                        | 56       |
| 12           | 30                                 | 33 | 32              | 31           | 57             | 57                        | 57       |
| 13           | 31                                 | 34 | 33              | 32           | 58             | 58                        | 58       |
| 14           | 33                                 | 36 | 35              | 33           | 60             | 59                        | 60       |
| 15           | 34                                 | 37 | 36              | 34           | 61             | 61                        | 61       |
| 16           | 36                                 | 38 | 37              | 35           | 63             | 62                        | 62       |
| 17           | 37                                 | 39 | 39              |              |                |                           |          |
| 18           | 39                                 | 40 | 40              |              |                |                           |          |

ASVAB 8AX Conversion Table Paragraph Comprehension (PC)

| Raw   | Standard Score |           | ore      | Raw   | Standard Score |           |          |  |
|-------|----------------|-----------|----------|-------|----------------|-----------|----------|--|
| Score | Recruits       | Applicant | Combined | Score | Recruits       | Applicant | Combined |  |
|       |                |           |          |       |                |           |          |  |
| 0     | 19             | 20        | 20       | 8     | 42             | 43        | 43       |  |
| 1     | 22             | 23        | 22       | 9     | 45             | 46        | 46       |  |
| 2     | 25             | 26        | 25       | 10    | 48             | 49        | 49       |  |
| 3     | 27             | 29        | 28       | 11    | 51             | 52        | 52       |  |
| 4     | 30             | 32        | 32       | 12    | 54             | 55        | 54       |  |
| 5     | 33             | 34        | 34       | 13    | 57             | 58        | 57       |  |
| 6     | 36             | 37        | 37       | 14    | 60             | 60        | 60       |  |
| 7     | 39             | 40        | 40       | 15    | 63             | 63        | 63       |  |

ASVAB 8AX Conversion Table Numerical Operations (NO)

| Raw   |          | Standard Sc | ore      | Raw   | St         | andard Score | e        |
|-------|----------|-------------|----------|-------|------------|--------------|----------|
| Score | Recruits | Applicant   | Combined | Score | Recruits   | Applicant    | Combined |
|       |          |             |          |       |            |              |          |
| 0     | 13       | 18          | 20       | 27    | 40         | 42           | 41       |
| 1     | 14       | 18          | 20       | 28    | 41         | 43           | 42       |
| 2     | 15       | 19          | 20       | 29    | 42         | 44           | 43       |
| 3     | 16       | 19          | 20       | 30    | 43         | 45           | 44       |
| 4     | 17       | 20          | 20       | 31    | 44         | 46           | 45       |
| 5     | 18       | 21          | 20       | 32    | 45         | 47           | 46       |
| 6     | 19       | 22          | 21       | 33    | 46         | 48           | 47       |
| 7     | 20       | 23          | 22       | 34    | 47         | 49           | 48       |
| 8     | 21       | 24          | 23       | 35    | 48         | 50           | 49       |
| 9     | 22       | 25          | 24       | 36    | 49         | 51           | 50       |
| 10    | 23       | 26          | 25       | 37    | 50         | 52           | 51       |
| 11    | 24       | 28          | 27       | 38    | 51         | 53           | 52       |
| 12    | 25       | 28          | 27       | 39    | 52         | 54           | 53       |
| 13    | 26       | 29          | 28       | 40    | 53         | 55           | 54       |
| 14    | 27       | 30          | 29       | 41    | 59         | 56           | 55       |
| 15    | 28       | 31          | 30       | 42    | 55         | 57           | 56       |
| 16    | 29       | 32          | 31       | 43    | 56         | 58           | 57       |
| 17    | 30       | 33          | 32       | 44    | 5 <i>1</i> | 59           | 58       |
| 18    | 31       | 34          | 33       | 45    | 58         | 60           | 59       |
| 19    | 32       | 35          | 34       | 46    | 59         | 61           | 60       |
| 20    | 33       | 36          | 35       | 47    | 60         | 62           | 61       |
| 21    | 34       | 37          | 36       | 48    | 61         | 63           | 62       |
| 22    | 35       | 38          | 36       | 49    | 62         | 64           | 62       |
| 23    | 36       | 39          | 37       | 50    | 63         | 65           | 63       |
| 24    | 37       | 40          | 38       |       |            |              |          |
| 25    | 30       | 41          | 39       |       |            |              |          |
| 26    | 39       | 42          | 40       |       |            |              |          |

ASVAB 8AX Conversion Table Coding Speed (CS)

| Raw   | ;  | Standard Score |          | Raw   | Standard Score |            |          |  |
|-------|----|----------------|----------|-------|----------------|------------|----------|--|
| Score |    | Applicant      |          | Score | Recruits       | Applicant  | Combined |  |
|       |    |                |          |       |                |            |          |  |
| 0     | 21 | 22             | 24       | , c   | 50             | <i>5</i> 1 | 5.0      |  |
| 0     |    | 23             | 24       | 45    | 50             | 51         | 52       |  |
| l     | 22 | 24             | 25<br>25 | 46    | 51             | 52         | 53       |  |
| 2     | 23 | 24             | 25       | 47    | 52             | 52         | 53       |  |
| 3     | 23 | 25             | 26       | 48    | 52<br>53       | 53         | 54       |  |
| 4     | 24 | 26             | 27       | 49    | 53             | 54         | 56       |  |
| 5     | 25 | 26             | 27       | 50    | 54             | 54         | 55       |  |
| 6     | 25 | 27             | 28       | 51    | 54<br>5.5      | 55         | 56       |  |
| 7     | 26 | 28             | 29       | 52    | 55             | 55         | 56       |  |
| 8     | 27 | 28             | 29       | 53    | 56             | 56         | 57       |  |
| 9     | 27 | 29             | 30       | 54    | 56             | 57         | 58       |  |
| 10    | 28 | 29             | 30       | 55    | 57             | 57         | 58       |  |
| 11    | 29 | 30             | 31       | 56    | 57             | 58         | 59       |  |
| 12    | 29 | 31             | 32       | 57    | 58             | 59         | 59       |  |
| 13    | 30 | 31             | 33       | 58    | 59             | 59         | 60       |  |
| 14    | 30 | 32             | 33       | 59    | 59             | 60         | 61       |  |
| 15    | 31 | 33             | 34       | 60    | 60             | 60         | 61       |  |
| 16    | 31 | 33             | 34       | 61    | 61             | 61         | 62       |  |
| 17    | 32 | 34             | 35       | 62    | 61             | 62         | 63       |  |
| 18    | 33 | 34             | 35       | 63    | 62             | 62         | 63       |  |
| 19    | 34 | 35             | 36       | 64    | 63             | 63         | 64       |  |
| 20    | 34 | 36             | 37       | 65    | 63             | 64         | 64       |  |
| 21    | 35 | 36             | 37       | 66    | 64             | 64         | 65       |  |
| 22    | 36 | 37             | 38       | 67    | 65             | 65         | 66       |  |
| 23    | 33 | 38             | 38       | 68    | 65             | 65         | 66       |  |
| 24    | 37 | 38             | 39       | 69    | 66             | 66         | 67       |  |
| 25    | 38 | 39             | 40       | 70    | 66             | 67         | 67       |  |
| 26    | 38 | 39             | 40       | 71    | 67             | 67         | 68       |  |
| 27    | 39 | 40             | 41       | 72    | 68             | 68         | 69       |  |
| 28    | 39 | 41             | 42       | 73    | 68             | 69         | 69       |  |
| 29    | 40 | 41             | 42       | 74    | 69             | 69         | 70       |  |
| 30    | 41 | 42             | 43       | 75    | 70             | 70         | 71       |  |
| 31    | 41 | 42             | 43       | 76    | 70             | 70         | 71       |  |
| 32    | 42 | 43             | 44       | 77    | 71             | 71         | 72       |  |
| 33    | 43 | 44             | 45       | 78    | 72             | 72         | 72       |  |
| 34    | 43 | 44             | 45       | 79    | 72             | 72         | 73       |  |
| 35    | 47 | 45             | 46       | 80    | 73             | 73         | 74       |  |
| 36    | 45 | 46             | 46       | 81    | 74             | 73         | 74       |  |
| 37    | 45 | 46             | 47       | 82    | 74             | 74         | 75       |  |
| 38    | 46 | 47             | 48       | 83    | 75             | 75         | ` 75     |  |
| 39    | 47 | 47             | 48       | 84    | 75             | 75         | 76       |  |
| 40    | 47 | 48             | 49       |       |                | -          | _        |  |
| 41    | 48 | 49             | 50       |       |                |            |          |  |
| 42    | 48 | 49             | 50       |       |                |            |          |  |
| 43    | 49 | 50             | 51       |       |                |            |          |  |
| 44    | 50 | 51             | 51       |       |                |            |          |  |

ASVAB 8AX Conversion Table Auto/Shop Information (AS)

| Raw   | Standard Score |           | ore      | Raw   | St       | Standard Score |          |  |  |
|-------|----------------|-----------|----------|-------|----------|----------------|----------|--|--|
| Score | Recruits       | Applicant | Combined | Score | Recruits | Applicant      | Combined |  |  |
|       |                |           |          |       |          |                |          |  |  |
| 0     | 17             | 22        | 21       | 13    | 42       | 44             | 44       |  |  |
| 1     | 19             | 24        | 22       | 14    | 44       | 46             | 46       |  |  |
| 2     | 21             | 25        | 24       | 15    | 46       | 48             | 47       |  |  |
| 3     | 23             | 27        | 26       | 16    | 48       | 50             | 49       |  |  |
| 4     | 25             | 29        | 28       | 17    | 50       | 51             | 51       |  |  |
| 5     | 27             | 31        | 30       | 18    | 52       | 53             | 53       |  |  |
| 6     | 29             | 32        | 31       | 19    | 54       | 55             | 55       |  |  |
| 7     | 30             | 34        | 33       | 20    | 56       | 57             | 56       |  |  |
| 8     | 33             | 36        | 35       | 21    | 58       | 58             | 58       |  |  |
| 9     | 35             | 38        | 37       | 22    | 59       | 60             | 60       |  |  |
| 10    | 37             | 39        | 39       | 23    | 61       | 62             | 62       |  |  |
| 11    | 38             | 41        | 40       | 24    | 63       | 64             | 64       |  |  |
| 12    | 40             | 43        | 42       | 25    | 65       | 65             | 65       |  |  |

ASVAB 8AX
Conversion Table
Mathematics Knowledge (MK)

| Raw   |          | Standard Sc |          | Raw   | St       | Standard Score |          |  |  |
|-------|----------|-------------|----------|-------|----------|----------------|----------|--|--|
| Score | Recruits | Applicant   | Combined | Score | Recruits |                | Combined |  |  |
|       |          |             |          |       |          |                |          |  |  |
| 0     | 29       | 29          | 29       | 13    | 51       | 51             | 51       |  |  |
| 1     | 30       | 31          | 31       | 14    | 52       | 53             |          |  |  |
| 2     | 32       | 33          | 32       | 15    | 54       | 54             | 53       |  |  |
| 3     | 34       | 34          | 34       | 16    | 56       | 56             | 54       |  |  |
| 4     | 35       | 36          | 36       | 17    | 58       | 58             | 56       |  |  |
| 5     | 37       | 38          | 37       | 18    | 60       |                | 58       |  |  |
| 6     | 39       | 39          | 39       | 19    | 61       | 59             | 59       |  |  |
| 7     | 41       | 41          | 41       | 20    |          | 61             | 61       |  |  |
| 8     | 42       | 43          | 42       |       | 63       | 63             | 63       |  |  |
| 9     | 44       | 44          | 44       | 21    | 64       | 64             | 64       |  |  |
| 10    | 46       | 46          |          | 22    | 66       | 66             | 66       |  |  |
| 11    | 47       |             | 46       | 23    | 68       | 68             | 68       |  |  |
|       |          | 48          | 48       | 24    | 70       | 69             | 69       |  |  |
| 12    | 49       | 49          | 49       | 25    | 71       | 71             | 71       |  |  |

ASVAB 8AX
Conversion Table
Mechanical Comprehension (MC)

| Raw   | Standard Score |           | ore      | Raw   | Standard Score |           |          |  |
|-------|----------------|-----------|----------|-------|----------------|-----------|----------|--|
| Score | Recruits       | Applicant | Combined | Score | Recruits       | Applicant | Combined |  |
|       |                |           |          |       |                |           |          |  |
| 0     | 20             | 23        | 22       | 13    | 44             | 46        | 45       |  |
| 1     | 22             | 24        | 24       | 14    | 47             | 48        | 47       |  |
| 2     | 24             | 26        | 26       | 15    | 48             | 49        | 49       |  |
| 3     | 26             | 28        | 28       | 16    | 50             | 51        | 51       |  |
| 4     | 28             | 30        | 29       | 17    | 52             | 53        | 53       |  |
| 5     | 29             | 32        | 31       | 18    | 54             | 55        | 54       |  |
| 6     | 31             | 33        | 33       | 19    | 56             | 57        | 56       |  |
| 7     | 33             | 35        | 35       | 20    | 58             | 58        | 58       |  |
| 8     | 35             | 37        | 37       | 21    | 59             | 60        | 60       |  |
| 9     | 37             | 39        | 38       | 22    | 61             | 62        | 62       |  |
| 10    | 39             | 40        | 40       | 23    | 63             | 64        | 63       |  |
| 11    | 41             | 42        | 42       | 24    | 65             | 65        | 65       |  |
| 12    | 43             | 44        | 44       | 25    | 67             | 67        | 67       |  |

ASVAB 8AX
Conversion Table
Electronics Information (EI)

| Raw   | Standard Score |           |            | Raw   | Standard Score |           |          |  |
|-------|----------------|-----------|------------|-------|----------------|-----------|----------|--|
| Score | Recruits       | Applicant | Combined   | Score | Recruits       | Applicant | Combined |  |
|       |                |           |            |       |                |           |          |  |
| 0     | 20             | 22        | 21         | 11    | 46             | 47        | 47       |  |
| 1     | 22             | 24        | 23         | 12    | 48             | 49        | 49       |  |
| 2     | 25             | 26        | 27         | 13    | 51             | 52        | 51       |  |
| 3     | 27             | 29        | 28         | 14    | 53             | 54        | 54       |  |
| 4     | 29             | 31        | 30         | 15    | 55             | 56        | 56       |  |
| 5     | 32             | 33        | 33         | 16    | 58             | 59        | 58       |  |
| 6     | 34             | 36        | <b>3</b> 5 | 17    | 60             | 61        | 61       |  |
| 7     | 36             | 38        | 37         | 18    | 62             | 63        | 63       |  |
| 8     | 39             | 40        | 40         | 19    | 65             | 65        | 65       |  |
| 9     | 41             | 42        | 42         | 20    | 67             | 68        | 67       |  |
| 10    | 44             | 45        | 44         |       |                |           |          |  |

ASVAB 8AX Conversion Table Verbal (VE)

| Raw   | S        | Standard Score   |          |          | St       | Standard Score |          |  |  |
|-------|----------|------------------|----------|----------|----------|----------------|----------|--|--|
| Score | Recruits | Applicant        | Combined | Score    | Recruits | Applicant      | Combined |  |  |
|       |          |                  |          |          |          |                |          |  |  |
|       |          |                  | 0.0      |          |          |                |          |  |  |
| 0     | 13       | 17               | 20       | 26       | 39       | 41             | 40       |  |  |
| 1     | 14       | 18               | 20       | 27       | 40       | 42             | 41       |  |  |
| 2     | 15       | 19               | 20       | 28       | 41       | 43             | 42       |  |  |
| 3     | 16       | 20               | 20       | 29       | 42       | 44             | 43       |  |  |
| 4     | 17       | 21               | 20       | 30       | 43       | 45             | 44       |  |  |
| 5     | 18       | 22               | 21       | 31       | 44       | 46             | 45       |  |  |
| 6     | 19       | 23               | 22       | 32       | 45       | 46             | 46       |  |  |
| 7     | 20       | 24               | 23       | 33       | 46       | 47             | 47       |  |  |
| 8     | 21       | 25               | 23       | 34       | 47       | 48             | 48       |  |  |
| 9     | 22       | 26               | 24       | 35       | 48       | 49             | 49       |  |  |
| 10    | 23       | 26               | 25       | 36       | 49       | 50             | 50       |  |  |
| 11    | 24       | 27               | 26       | 37       | 50       | 51             | 51       |  |  |
| 12    | 25       | 28               | 27       | 38       | 51       | 52             | 52       |  |  |
| 13    | 26       | 29               | 28       | 39       | 52       | 53             | 53       |  |  |
| 14    | 27       | 30               | 29       | 40       | 53       | 54             | 54       |  |  |
| 15    | 28       | 31               | 30       | 41       | 54       | 55             | 55       |  |  |
| 16    | 29       | 32               | 31       | 42       | 55       | 56             | 56       |  |  |
| 17    | 30       | 33               | 32       | 43       | 56       | 56             | 56       |  |  |
| 18    | 31       | 34               | 33       | 44       | 57       | 57             | 57       |  |  |
| 19    | 32       | 35               | 34       | 45       | 58       | 58             | 58       |  |  |
| 20    | 33       | 36               | 35       | 46       | 59       | 59             | 59       |  |  |
| 21    | 34       | 36               | 36       | 47       | 60       | 60             | 60       |  |  |
| 22    | 35       | 30<br>37         | 37       | 48       |          |                |          |  |  |
| 23    | 36       | 3 <i>1</i><br>38 | 37<br>38 |          | 61       | 61             | 61       |  |  |
|       |          |                  |          | 49<br>50 | 62       | 62             | 62       |  |  |
| 24    | 37       | 39               | 39       | 50       | 63       | 63             | 63       |  |  |
| 25    | 38       | 40               | 39       |          |          |                |          |  |  |

APPENDIX C

#### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: COMBAT - CO (ARMY)

Subtests: CS + AR + MC + AS

| Sum of Subtest<br>Standard Scores |                    | Composite<br>Score | \$       | Sum of Subtes<br>Standard Score |          | Composite<br>Score |          |
|-----------------------------------|--------------------|--------------------|----------|---------------------------------|----------|--------------------|----------|
|                                   | Recruits           | Applicant          | Combined | 1                               | Recruits | Applicant          | Combined |
| 91-106                            | 41                 | 40                 | 40       | 164-165                         | 76-77    | 75-76              | 76       |
| 107-122                           | 41                 | 40                 | 41       | 166-167                         | 78       | 76-77              | 77       |
| 123                               | 41                 | 40                 | 43       | 168                             | 79       | 77                 | 78       |
| 124                               | 50                 | 40                 | 45       | 169-170                         | 80-81    | 78                 | 79       |
| 125                               | 52                 | 50                 | 48       | 171-172                         | 81-82    | 79-80              | 80       |
| 126                               | 55                 | 40                 | 50       | 173                             | 41       | 40                 | 40       |
| 127                               | 55                 | 40                 | 52       | 174-175                         | 83-84    | 81-82              | 82       |
| 128                               | 55                 | 40                 | 53       | 176                             | 85       | 82                 | 83       |
| 129                               | 56                 | 45                 | 54       | 177                             | 85       | 83                 | 84       |
| 130                               | 56                 | 45                 | 55       | 178-179                         | 86       | 84-85              | 85       |
| 131                               | 56                 | 50                 | 56       | 180                             | 87       | 85                 | 86       |
| 132-133                           | 56-57              | 50-54              | .57      | 181-182                         | 88-89    | 86-87              | 87       |
| 134                               | 57                 | 54                 | 58       | 183                             | 90       | 87                 | 88       |
| 135-136                           | 58                 | 54-57              | 59       | 184-185                         | 90-91    | 88-89              | 89       |
| 137                               | 59                 | 57                 | 60       | 186                             | 92       | 90                 | 90       |
| 138-139                           | 59-60              | 59                 | 61       | 187                             | 93       | 90                 | 91       |
| 140-142                           | 60-61              | 59-61              | 62       | 188-189                         | 93-94    | 91-92              | 92       |
| 143                               | 62                 | 62                 | 63       | 190-191                         | 95-96    | 92-93              | 93       |
| 144                               | 62                 | 62                 | 64       | 192-193                         | 96-97    | 93-94              | 94       |
| 145-146                           | 63                 | 64-65              | 65       | 194-195                         | 98       | 95                 | 95       |
| 147-148                           | 64                 | 65-66              | 66       | 196-197                         | 98-99    | 96                 | 96       |
| 149                               | 65                 | 66                 | 67       | 198                             | 99       | 97                 | 97       |
| 150-151                           | 65 <del>-</del> 66 | 66-68              | 68       | 199-200                         | 100      | 98                 | 98       |
| 152-153                           | 67                 | 68                 | 69       | 201                             | 101      | 99                 | 99       |
| 154-155                           | 68-69              | 68-70              | 70       | 202-203                         | 101-102  | 99-100             | 100      |
| 156-157                           | 70                 | 70-71              | 71       | 204-205                         | 103      | 100-101            | 101      |
| 158                               | 71                 | 71                 | 72       | 206-207                         | 104-105  | 102-103            | 102      |
| 159                               | 72                 | 71                 | 73       | 208-209                         | 105-106  | 103                | 103      |
| 160-161                           | 73 <b>-</b> 75     | 73                 | 74       | 210-211                         | 107-108  | 104                | 104      |
| 162-163                           | 74-75              | 75                 | 75       | 212-213                         | 108-109  | 105                | 105      |

<sup>&</sup>lt;sup>a</sup> Conversions from the combined sample were implemented for operational use 1 Oct 80.

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: COMBAT - CO (ARMY) (Continued)

Subtests: CS + AR + MC + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | c        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | I                                 | Recruits | Applicant         | Combined |
| 214                               | 109      | 106                | 106      | 253                               | 133      | 131               | 131      |
| 215                               | 110      | 107                | 107      | 254                               | 134      | 133               | 133      |
| 216                               | 110      | 107                | 108      | 255                               | 135      | 135               | 135      |
| 217-218                           | 111-112  | 108-109            | 109      | 256                               | 136      | 135               | 136      |
| 219                               | 113      | 109                | 110      | 257                               | 136      | 135               | 137      |
| 220-221                           | 113-114  | 110-111            | 111      | 258                               | 137      | 137               | 138      |
| 222                               | 114      | 111                | 112      | 259                               | 137      | 137               | 139      |
| 223-224                           | 115-116  | 112                | 113      | 260                               | 138      | 141               | 141      |
| 225-226                           | 117      | 113-114            | 114      | 261                               | 139      | 141               | 143      |
| 227                               | 118      | 114                | 115      | 262                               | 139      | 141               | 144      |
| 228-229                           | 119-120  | 115-116            | 116      | 263                               | 139      | 147               | 145      |
| 230-231                           | 121      | 116-117            | 117      | 264                               | 140      | 147               | 147      |
| 232                               | 122      | 117                | 118      | 265                               | 140      | 147               | 149      |
| 233                               | 122      | 117                | 119      | 266                               | 140      | 155               | 150      |
| 234                               | 123      | 118                | 120      | 267                               | 140      | 155               | 151      |
| 235-236                           | 123-124  | 118-119            | 121      | 268-269                           | 140      | 155               | 152      |
| 237-238                           | 124-125  | 120-121            | 122      | 270                               | 140      | 155               | 153      |
| 239-240                           | 126      | 121-122            | 123      | 271-272                           | 140      | 155               | 154      |
| 241-242                           | 127      | 123                | 124      | 273-274                           | 140      | 155               | 155      |
| 243                               | 128      | 123                | 125      |                                   |          |                   |          |
| 244-245                           | 128-129  | 124                | 126      |                                   |          |                   |          |
| 246-247                           | 130      | 125                | 127      |                                   |          |                   |          |
| 248-249                           | 131      | 126                | 128      |                                   |          |                   |          |
| 250                               | 132      | 127                | 129      |                                   |          |                   |          |
| 251-252                           | 132-133  | 127-128            | 130      |                                   |          |                   |          |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: COMBAT - CO (MARINES)

Subtests: NO + VE + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | 1                                 | Recruits | Applicant          | Combined |
| 61-70                             | 41       | 40                 | 40       | 113-114                           | 68       | 68-70              | 70       |
| 71-79                             | 41       | 40                 | 41       | 115-116                           | 69-70    | 70                 | 71       |
| 80                                | 48       | 40                 | 43       | 117                               | 70       | 71                 | 72       |
| 81                                | 49       | 40                 | 45       | 118-119                           | 71-72    | 71-73              | 73       |
| 82                                | 50       | 40                 | 48       | 120-121                           | 72-73    | 73                 | 74       |
| 83                                | 50       | 40                 | 50       | 122-123                           | 74-75    | 75                 | 75       |
| 84                                | 51       | 40                 | 51       | 124-125                           | 76-77    | 75-76              | 76       |
| 85                                | 52       | 40                 | 52       | 126-127                           | 77-78    | 76-77              | 77       |
| 86                                | 53       | 40                 | 53       | 128-129                           | 79-80    | 78                 | 78       |
| 87                                | 54       | 45                 | 54       | 130                               | 81       | 79                 | 79       |
| 88                                | 55       | 45                 | 55       | 131                               | 82       | 79                 | 80       |
| 89-90                             | 55~56    | 50                 | 56       | 132                               | 82       | 80                 | 81       |
| 91-92                             | 56-57    | 50-54              | 57       | 133-134 •                         | 83-84    | 81-82              | 82       |
| 93-94                             | 57-58    | 54-57              | 58       | 135                               | 85       | 83                 | 83       |
| 95-96                             | 58-59    | 57                 | 59       | 136                               | 86       | 84                 | 84       |
| 97-98                             | 59-60    | 59                 | 60       | 137                               | 87       | 85                 | 85       |
| 99                                | 60       | 59                 | 61       | 138-139                           | 87-88    | 86                 | 86       |
| 100-101                           | 60-61    | 61                 | 62       | 140                               | 89       | 87                 | 87       |
| 102                               | 61       | 62                 | 63       | 141                               | 90       | 88                 | 88       |
| 103-104                           | 61-62    | 62-64              | 64       | 142                               | 91       | 89                 | 89       |
| 105-106                           | 63-64    | 64-65              | 65       | 143                               | 92       | 90                 | 90       |
| 107-108                           | 64-65    | 65                 | 66       | 144                               | 93       | 91                 | 91       |
| 109                               | 65       | 65                 | 67       | 145-146                           | 94-95    | 92                 | 92       |
| 110                               | 66       | . 66               | 68       | 147                               | 96       | 93                 | 93       |
| 111-112                           | 66-67    | 66-68              | 69       | 148                               | 97       | 94                 | 94       |

#### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: COMBAT - CO (MARINES) (Continued)

Subtests: NO + VE + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | I                                 | Recruits | Applicant          | Combined |
| 149-150                           | 98-99    | 95                 | 95       | 176                               | 125      | 120                | 120      |
| 151                               | 99       | 96                 | 96       | 177                               | 126      | 121                | 121      |
| 152                               | 100      | 97                 | 97       | 178                               | 127      | 121                | 122      |
| 153                               | 101      | 98                 | 98       | 179                               | 128      | 122                | 123      |
| 154                               | 102      | 99                 | 99       | 180                               | 129      | 123                | 124      |
| 155-156                           | 103-104  | 99-100             | 100      | 181                               | 130      | 124                | 125      |
| 157                               | 105      | 101                | 101      | 182                               | 131      | 125                | 126      |
| 158                               | 106      | 103                | 102      | 183                               | 132      | 126                | 127      |
| 159                               | 107      | 103                | 103      | 184                               | 133      | 126                | 130      |
| 160                               | 108      | 104                | 104      | 185                               | 135      | 127                | 131      |
| 161                               | 109      | 105                | 105      | 186                               | 137      | 128                | 133      |
| 162                               | 110      | 105                | 106      | 187                               | 138      | 130                | 135      |
| 163                               | 112      | 107                | 107      | 188                               | 140      | 133                | 137      |
| 164                               | 113      | 107                | 108      | 189                               | 140      | 135                | 141      |
| 165                               | 114      | 109                | 109      | 190                               | 140      | 137                | 147      |
| 166                               | 115      | 110                | 110      | 191                               | 140      | 141                | 155      |
| 167                               | 116      | 111                | 111      |                                   |          |                    |          |
| 168                               | 117      | 112                | 112      |                                   |          |                    |          |
| 169                               | 118      | 113                | 113      |                                   |          |                    |          |
| 170                               | 119      | 114                | 114      |                                   |          |                    |          |
| 171                               | 120      | 115                | 115      |                                   |          |                    |          |
| 172                               | 121      | 117                | 116      |                                   |          |                    |          |
| 173                               | 122      | 117                | 117      |                                   |          |                    |          |
| 174                               | 123      | 118                | 118      |                                   |          |                    |          |
| 175                               | 124      | 119                | 119      |                                   |          |                    |          |

APPENDIX C
CONVERSION TABLES FOR APTITUDE COMPOSITES

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: FIELD ARTILLERY - FA (ARMY)

Subtests: CS + AR + MC + MK

| Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |  |
|-----------------------------------|--------------------|-----------|----------|-----------------------------------|----------|--------------------|----------|--|
|                                   | Recruits           | Applicant | Combined | I                                 | Recruits | Applicant          | Combined |  |
| 99-113                            | 41                 | 40        | 40       | 158                               | 71       | 71                 | 72       |  |
| 114-127                           | 41                 | 40        | 41       | 159                               | 72       | 71                 | 73       |  |
| 128                               | 48                 | 40        | 44       | 160-161                           | 73-74    | 73                 | 74       |  |
| 129                               | 50                 | 40        | 47       | 162-163                           | 75-76    | 75                 | 75       |  |
| 130                               | 51                 | 40        | 50       | 164-165                           | 77       | 76                 | 76       |  |
| 131                               | 52                 | 45        | 53       | 166                               | 78       | 76                 | 77       |  |
| 132                               | 54                 | 45        | 53       | 167-168                           | 79-80    | 77                 | 78       |  |
| 133                               | 55                 | 45        | 54       | 169-170                           | 81       | 78                 | 79       |  |
| 134                               | 55                 | 50        | 55       | 171                               | 82       | 79                 | 80       |  |
| 135-136                           | 56                 | 50        | 56       | 172                               | 83       | 80                 | 81       |  |
| 137-138                           | 57                 | 54        | 57       | 173                               | 84       | 81                 | 82       |  |
| 139                               | 58                 | 54        | 58       | 174                               | 85       | 82                 | 83       |  |
| 140-141                           | 58-59              | 57        | 59       | 175-176                           | 86-87    | 83                 | 84       |  |
| 142                               | 59                 | 57        | 60       | 177                               | 87       | 84                 | 85       |  |
| 143                               | 59                 | 59        | 61       | 178                               | 88       | 85                 | 86       |  |
| 144-145                           | 61                 | 62        | 63       | 179-180                           | 89-90    | 86-87              | 87       |  |
| 146                               | 61                 | 62        | 63       | 181                               | 91       | 88                 | 88       |  |
| 147                               | 61                 | 62        | 64       | 182                               | 91       | 88                 | 89       |  |
| 148-149                           | 62-63              | 64-65     | 65       | 183-184                           | 92-93    | 89-90              | 90       |  |
| 150-151                           | 64-65              | 65        | 66       | 185                               | 94       | 90                 | 91       |  |
| 152                               | 65                 | 66        | 67       | 186-187                           | 95-96    | 92                 | 92       |  |
| 153                               | 66                 | 66        | 68       | 188                               | 96       | 93                 | 93       |  |
| 154                               | 67                 | 68        | 69       | 189-190                           | 97       | 93-94              | 94       |  |
| 155-156                           | 68-69              | 68-70     | 70       | 191-192                           | 97-98    | 94-95              | 95       |  |
| 157                               | 70                 | 70        | 71       | 193-194                           | 98-99    | 95-96              | 96       |  |

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: FIELD ARTILLERY - FA (ARMY) (Continued)

Subtests: CS + AR + MC + MK

| Sum of Subtest<br>Standard Scores |          |           |          | Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          |
|-----------------------------------|----------|-----------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant | Combined | i                                 | Recruits | Applicant          | Combined |
| 195                               | 99       | 97        | 97       | 242-243                           | 125      | 121                | 122      |
| 196-197                           | 100      | 97-98     | 98       | 244-246                           | 126-127  | 121-123            | 123      |
| 198-199                           | 101-102  | 98-99     | 99       | 247-248                           | 127      | 123                | 124      |
| 200-201                           | 102-103  | 99-100    | 100      | 249-250                           | 128      | 124                | 125      |
| 202                               | 103      | 100       | 101      | 251-252                           | 129      | 125-126            | 126      |
| 203-204                           | 104-105  | 101-102   | 102      | 253-254                           | 130      | 126-127            | 127      |
| 205-206                           | 105-106  | 103       | 103      | 255-256                           | 131-132  | 127-128            | 128      |
| 207-208                           | 107      | 104       | 104      | 257                               | 132      | 128                | 129      |
| 209-210                           | 108      | 105       | 105      | 258-259                           | 133      | 130                | 130      |
| 211                               | 109      | 106       | 106      | 260                               | 134      | 131                | 131      |
| 212-213                           | 109-110  | 107       | 107      | 261                               | 135      | 133                | 133      |
| 214-215                           | 111      | 107-108   | 108      | 262                               | 135      | 133                | 134      |
| 216-217                           | 112      | 109       | 109      | 263                               | 136      | 135                | 135      |
| 218                               | 113      | 109       | 110      | 264                               | 137      | 135                | 136      |
| 219-220                           | 113-114  | 110-111   | 111      | 265                               | 137      | 137                | 137      |
| 221-224                           | 114-115  | 111-112   | 112      | 266                               | 137      | 137                | 138      |
| 223-224                           | 115-116  | 112-113   | 113      | 267                               | 138      | 141                | 139      |
| 225-226                           | 116-117  | 113-114   | 114      | 268                               | 138      | 147                | 141      |
| 227-228                           | 117-118  | 114-115   | 115      | 269                               | 138      | 147                | 142      |
| 229-230                           | 118-119  | 116       | 116      | 270                               | 139      | 147                | 143      |
| 231-232                           | 120      | 116-117   | 117      | 271                               | 139      | 147                | 145      |
| 233-234                           | 121      | 117       | 118      | 272                               | 139      | 155                | 147      |
| 235-236                           | 122      | 117-118   | 119      | 273                               | 139      | 155                | 149      |
| 237-238                           | 123      | 118       | 120      | 274                               | 140      | 155                | 150      |
| 239-241                           | 124-125  | 118-120   | 121      | 275                               | 140      | 155                | 151      |
|                                   |          |           |          | 276                               | 140      | 155                | 152      |
|                                   |          |           |          | 277-278                           | 140      | 155                | 153      |
|                                   |          |           |          | 279                               | 140      | 155                | 154      |
|                                   |          |           |          | 280                               | 140      | 155                | 155      |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: FIELD ARTILLERY - FA (MARINES)

Subtests: AR + VE + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | I                                 | Recruits | Applicant         | Combined |
| 66-75                             | 41       | 40                 | 40       | 114                               | 71       | 71                | 72       |
| 76-86                             | 41       | 40                 | 41       | 115                               | 72       | 71                | 73       |
| 87                                | 45       | 40                 | 44       | 116                               | 73       | 73                | 74       |
| 88                                | 49       | 40                 | 47       | 117-118                           | 74-75    | 73-75             | 75       |
| 89                                | 52       | 40                 | 50       | 119-120                           | 76       | 75-76             | 76       |
| 90                                | 54       | 40                 | 52       | 121-122                           | 77       | 76-77             | 78       |
| 91                                | 55       | 45                 | 53       | 123-124                           | 78-79    | 77~78             | 78       |
| 92                                | 55       | 54                 | 54       | 125-126                           | 79-80    | 78-79             | 79       |
| 93                                | 55       | 50                 | 55       | 127                               | 80       | 79                | 80       |
| 94                                | 56       | 50                 | 56       | 128                               | 81       | 80                | 81       |
| 95                                | 56       | 54                 | 57       | 129-130                           | 82-83    | 81-82             | 82       |
| 96                                | · 57     | 54                 | 58       | 131                               | 84       | 83                | 83       |
| 97                                | 57       | 57                 | 59       | 132                               | 85       | 83                | 84       |
| 98                                | 58       | 57                 | 60       | 133-134                           | 85-86    | 84-85             | 85       |
| 99-100                            | 58-59    | 59-61              | 61       | 135                               | 87       | 86                | 86       |
| 101                               | 60       | 61                 | 62       | 136                               | 88       | 87                | 87       |
| 102                               | 60       | 62                 | 63       | 137                               | 89       | 88                | 88       |
| 103                               | 61       | 64                 | 64       | 138                               | 90       | 88                | 89       |
| 104-105                           | 63-64    | 64-65              | 65       | 139                               | 91       | 89                | 90       |
| 106                               | 65       | 65                 | 66       | 140-141                           | 92-93    | 90-91             | 91       |
| 107                               | 66       | 66                 | 67       | 142                               | 94       | 92                | 92       |
| 108                               | 67       | 66                 | 68       | 143-144                           | 95       | 92-93             | 93       |
| 109                               | 67       | 68                 | 69       | 145                               | 96       | 94                | 94       |
| 110-111                           | 68-69    | 68-70              | 70       | 146-147                           | 97-98    | 95-96             | 95       |
| 112-113                           | 70-71    | 70-71              | 71       | 148                               | 99       | 96                | 96       |

# ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: FIELD ARTILLERY - FA (MARINES) (Continued)

Subtests: AR + VE + AS

| Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          | Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          |
|-----------------------------------|--------------------|-----------|----------|-----------------------------------|--------------------|-----------|----------|
|                                   | Recruits           | Applicant | Combined | ı                                 | Recruits           | Applicant | Combined |
| 149                               | 99                 | 97        | 97       | 174                               | 119                | 117       | 117      |
| 150                               | 100                | 98        | 98       | 175                               | 120                | 111       | 118      |
|                                   | 100-101            | 99        | 99       | 176                               | 121                | 118       | 119      |
| 151-152                           |                    | 100       | 100      | 177                               | 122                | 118       | 120      |
| 153-154<br>155                    | 102-103<br>103     | 101       | 101      | 178-179                           | 123                | 119-120   | 121      |
|                                   | 104                | 102       | 102      | 180                               | 124                | 121       | 122      |
| 156                               | 104                | 103       | 103      | 181                               | 125                | 122       | 123      |
| 157                               |                    | 104-105   | 104      | 182                               | 126                | 123       | 124      |
| 158-159                           | 106-107            | 105-106   | 105      | 183                               | 127                | 123       | 125      |
| 160-161                           | 107-108            |           | 106      | 184                               | 128                | 124       | 126      |
| 162                               | 109                | 106       | 100      | 104                               | 120                |           |          |
| 163                               | 110                | 107       | 107      | 185                               | 129                | 125       | 127      |
| 164                               | 110                | 107       | 108      | 186                               | 130                | 126       | 128      |
|                                   | 111                | 109       | 109      | 187                               | 131                | 126       | 130      |
| 165                               | 112                | 110       | 110      | 188                               | 132                | 127       | 131      |
| 166                               | 113                | 111       | 111      | 189                               | 133                | 128       | 133      |
| 167                               | 113                | 111       | 111      | • • •                             |                    |           |          |
|                                   | 11/                | 111       | 112      | 190                               | 134                | 133       | 135      |
| 168                               | 114                | 112       | 113      | 191                               | 135                | 135       | 137      |
| 169                               | 115                |           | 114      | 192                               | 139                | 137       | 141      |
| 170                               | 115                | 113       | 114      | 193                               | 140                | 141       | 147      |
| 171                               | 116                | 114       | 116      | 194                               | 140                | 141       | 151      |
| 172-173                           | 117~118            | 116       | 110      | 195                               | 140                | 147       | 155      |

APPENDIX C

## ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: ELECTRONICS - EL (ARMY AND MARINES)

Subtests: AR + MK + EI + GS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | l                                 | Recruits | Applicant          | Combined |
| 95-109                            | 41       | 40                 | 40       | 152-153                           | 67-68    | 68                 | 70       |
| 110-124                           | 41       | 40                 | 41       | 154                               | 69       | 70                 | 71       |
| 125                               | 41       | 40                 | 43       | 155                               | 70       | 70                 | 72       |
| 126                               | 41       | 40                 | 45       | 156-157                           | 71-72    | 71                 | 73       |
| 127                               | 41       | 40                 | 48       | 158-159                           | 73-74    | 73-75              | 74       |
| 128                               | 41       | 40                 | 50       | 160-161                           | 75-76    | 75-76              | 75       |
| 129                               | 51       | 40                 | 51       | 162-163                           | 77-78    | 76                 | 76       |
| 130                               | 52       | 40                 | 52       | 164                               | 79       | <b>7</b> 7         | 77       |
| 131                               | 53       | 45                 | 53       | 165-166                           | 80       | 77-78              | 78       |
| 132                               | 54       | 45                 | 54       | 167                               | 81       | 78                 | 79       |
| 133                               | 55       | 50                 | 55       | 168-169                           | 81-82    | 79-80              | 80       |
| 134                               | 56       | 50                 | 56       | 170-171                           | 83-84    | 81-82              | 81       |
| 135-136                           | 57       | 54                 | 57       | 172                               | 84       | 82                 | 82       |
| 137                               | 58       | 54                 | 58       | 173                               | 85       | 83                 | 83       |
| 138-139                           | 58-59    | 57                 | 59       | 174                               | 86       | 84                 | 84       |
| 140                               | 59       | 59                 | 60       | 175-176                           | 87-88    | 85-86              | 85       |
| 141                               | 60       | 59                 | 61       | 177                               | 89       | 86                 | 86       |
| 142-143                           | 61       | 61                 | 62       | 178                               | 90       | 87                 | 87       |
| 144                               | 62       | 62                 | 63       | 179-180                           | 90-91    | 87-88              | 88       |
| 145                               | 63       | 62                 | 64       | 181                               | 92       | 89                 | 89       |
| 146-147                           | 63-64    | 64-65              | 65       | 182                               | 92       | 90                 | 90       |
| 148                               | 64       | 65                 | 66       | 183-184                           | 93-94    | 90-91              | 91       |
| 149                               | 65       | 66                 | 67       | 185-186                           | 94-95    | 92                 | 92       |
| 150                               | 66       | 66                 | 68       | 187-188                           | 96       | 93                 | 93       |
| 151                               | 67       | 68                 | 69       | 189-190                           | 97-98    | 94                 | 94       |

#### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: ELECTRONICS - EL (ARMY AND MARINES) (Continued)

Subtests: AR + MK + EI + GS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | С        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | I                                 | Recruits | Applicant         | Combined |
| 191-192                           | 98-99    | 95                 | 95       | 239-240                           | 122-123  | 118               | 120      |
| 193                               | 99       | 96                 | 96       | 241-240                           | 123-124  | 119-120           | 121      |
| 194                               | 99       | 96                 | 96       | 244-245                           | 124-125  | 120-121           | 122      |
| 195-196                           | 100      | 97-98              | 98       | 246-248                           | 125-126  | 121-122           | 123      |
| 197-198                           | 100-101  | 98-99              | 99       | 249-251                           | 126-128  | 122-123           | 124      |
| 199-200                           | 101-102  | 99-100             | 100      | 252-253                           | 128      | 123-124           | 125      |
| 201-202                           | 102-103  | 100                | 101      | 254-255                           | 129      | 124-125           | 126      |
| 203-204                           | 104      | 101-102            | 102      | 256-257                           | 130-131  | 125-127           | 127      |
| 205-206                           | 105      | 103                | 103      | 258                               | 132      | 126               | 128      |
| 207-208                           | 106      | 104                | 104      | 259                               | 132      | 127               | 129      |
| 209-210                           | 107-108  | 104-105            | 105      | 260                               | 132      | 128               | 130      |
| 211-212                           | 109      | 105-106            | 106      | 261                               | 133      | 130               | 131      |
| 213-214                           | 110      | 107                | 107      | 262                               | 133      | 131               | 132      |
| 215                               | 111      | 108                | 108      | 263                               | 134      | 131               | 133      |
| 216-217                           | 111-112  | 109                | 109      | 264                               | 135      | 133               | 134      |
| 218-219                           | 112-113  | 109-110            | 110      | 265                               | 136      | 134               | 135      |
| 220-221                           | 113-114  | 111                | 111      | 266                               | 136      | 135               | 137      |
| 222-223                           | 114-115  | 112                | 112      | 267                               | 137      | 137               | 141      |
| 224-225                           | 115-116  | 113                | 113      | 268                               | 138      | 141               | 145      |
| 226-227                           | 116-117  | 113-114            | 114      | 269                               | 139      | 147               | 147      |
| 228-229                           | 117-118  | 114-115            | 115      | 270                               | 140      | 147               | 150      |
| 230-231                           | 118-119  | 116                | 116      | 271                               | 140      | 147               | 153      |
| 232-233                           | 119-120  | 116-117            | 117      | 272                               | 140      | 147               | 155      |
| 234-236                           | 120-121  | 117                | 118      |                                   |          |                   |          |
| 237-238                           | 122      | 118                | 119      |                                   |          |                   |          |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: SURVEILLANCE COMMUNICATIONS SC (ARMY)

Subtests: NO + CS + VE + AS

| Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          | Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          |
|-----------------------------------|--------------------|-----------|----------|-----------------------------------|--------------------|-----------|----------|
|                                   | Recruits           | Applicant | Combined | l                                 | Recruits           | Applicant | Combined |
| 84-97                             | 41                 | 40        | 40       | 150-151                           | 65-66              | 66        | 68       |
| 98-109                            | 41                 | 40        | 41       | 152-153                           | 66-67              | 68        | 69       |
| 110                               | 41                 | 40        | 43       | 154-155                           | 68                 | 68-70     | 70       |
| 111                               | 41                 | 40        | 45       | 156-157                           | 69-70              | 70        | 71       |
| 112                               | 41                 | 40        | 47       | 158-159                           | 70-71              | 71        | 72       |
| 113                               | 41                 | 40        | 48       | 160-161                           | 72-73              | 71-73     | . 73     |
| 114                               | 41                 | 40        | 49       | 162-163                           | 73                 | 73        | 74       |
| 115                               | 41                 | 40        | 50       | 164-166                           | 74-75              | 73-75     | 75       |
| 116                               | 45                 | 40        | 51       | 167-169                           | 76-77              | 75-76     | 76       |
| 117                               | 50                 | 40        | 52       | 170-171                           | 78-79              | 76-77     | 77       |
| 118                               | 54                 | 45        | 53       | 172-173                           | 79-80              | 77        | 78       |
| 119-120                           | 55-56              | 45        | 54       | 174-175                           | 81                 | 78        | 79       |
| 121-122                           | 56                 | 50        | 55       | 176-177                           | 82                 | 79-80     | 80       |
| 123-124                           | 56-57              | 50-54     | 56       | 178                               | 83                 | 81        | 81       |
| 125-126                           | 57                 | 54        | 57       | 179-180                           | 84                 | 82        | 82       |
| 127-128                           | 57-58              | 54-57     | 58       | 181                               | 85                 | 83        | 83       |
| 129-131                           | 58-59              | 57        | 59       | 182-183                           | 86                 | 83-84     | 84       |
| 132-133                           | 59-60              | 57-59     | 60       | 184-185                           | 87-88              | 84-85     | 85       |
| 134-135                           | 60                 | 59        | 61       | 186                               | 89                 | 86        | 86       |
| 136-137                           | 61                 | 61        | 62       | 187                               | 89                 | 86        | 87       |
| 138-139                           | 61-62              | 61-62     | 63       | 188-189                           | 90-91              | 87-88     | 88       |
| 140-141                           | 62                 | 62-64     | 64       | 190                               | 92                 | 88        | 89       |
| 142-144                           | 63                 | 64-65     | 65       | 191                               | 93                 | 89        | 90       |
| 145-147                           | 64                 | 65        | 66       | 192                               | 94                 | 90        | 91       |
| 148-149                           | 64-65              | 66        | 67       | 193-194                           | 94-95              | 91-92     | 92       |

#### ASVAB 8AX CONVERSION TABLE

## APTITUDE COMPOSITE: SURVEILLANCE COMMUNICATIONS SC (ARMY) (Continued)

Subtests: NO + CS + VE + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | I                                 | Recruits | Applicant          | Combined |
| 195-196                           | 96-97    | 92-93              | 93       | 229-230                           | 122-123  | 117                | 118      |
| 197-198                           | 97-98    | 93-94              | 94       | 231                               | 123      | 118                | 119      |
| 199                               | 98       | 95                 | 95       | 232                               | 124      | 118                | 120      |
| 200-201                           | 99-100   | 96                 | 96       | 233-234                           | 125      | 119-120            | 121      |
| 202                               | 100      | 97                 | 97       | 235-236                           | 126-127  | 121                | 122      |
| 203                               | 101      | 98                 | 98       | 237-238                           | 127-128  | 121-122            | 123      |
| 204-205                           | 102      | 98-99              | 99       | 239-240                           | 128-129  | 123                | 124      |
| 206-207                           | 103-104  | 100                | 100      | 241                               | 130      | 123                | 125      |
| 208                               | 105      | 101                | 101      | 242-243                           | 130-131  | 124                | 126      |
| 209                               | 106      | 102                | 102      | 244-245                           | 131-132  | 125                | 127      |
| 210-211                           | 107      | 103                | 103      | 246                               | 132      | 126                | 128      |
| 212-213                           | 108-109  | 104                | 104      | 247                               | 133      | 126-127            | 129      |
| 214                               | 110      | 105                | 105      | 248                               | 134      | 127                | 130      |
| 215                               | 111      | 106                | 106      | 249                               | 135      | 127                | 131      |
| 216-217                           | 112      | 107                | 107      | 250                               | 136      | 128                | 133      |
| 218                               | 113      | 108                | 108      | 251                               | 137      | 130                | 134      |
| 219                               | 114      | 109                | 109      | 252                               | 138      | 131                | 135      |
| 220                               | 115      | 109                | 110      | 253                               | 138      | 135                | 136      |
| 221                               | 116      | 110                | 111      | 254                               | 139      | 135                | 137      |
| 222                               | 117      | 111                | 112      | 255                               | 139      | 137                | 138      |
| 223-224                           | 118      | 112-113            | 113      | 256                               | 139      | 137                | 141      |
| 225                               | 119      | 113                | 114      | 257                               | 140      | 137                | 144      |
| 226                               | 120      | 114                | 115      | 258                               | 140      | 141                | 147      |
| 227                               | 121      | 116                | 116      | 259                               | 140      | 141                | 149      |
| 228                               | 121      | 116                | 117      | 260                               | 140      | 141                | 150      |
|                                   |          |                    |          | 261                               | 140      | 141                | 151      |
|                                   |          |                    |          | 262                               | 140      | 147                | 153      |
|                                   |          |                    |          | 263                               | 140      | 147                | 153      |
|                                   |          |                    |          | 264                               | 140      | 155                | 154      |
|                                   |          |                    |          | 265-266                           | 140      | 155                | 155      |

APPENDIX C

#### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: OPERATORS/FOOD - OF (ARMY)

Subtests: NO + VE + MC + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | c        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | 1                                 | Recruits | Applicant          | Combined |
| 83-98                             | 41-48    | 40                 | 40       | 152-153                           | 68       | 68-70              | 70       |
| 99-113                            | 41-48    | 40                 | 41       | 154-155                           | 69       | 70                 | 71       |
| 114                               | 50       | 40                 | 42       | 156-157                           | 70       | 71                 | 72       |
| 115                               | 50       | 40                 | 45       | 158-159                           | 71-72    | 71-73              | 73       |
| 116                               | 51       | 40                 | 47       | 160-161                           | 73       | 73                 | 74       |
| 117                               | 52       | 40                 | 49       | 162-163                           | 74-75    | 75                 | 75       |
| 118                               | 53       | 40                 | 50       | 164-166                           | 76-77    | 75~76              | 76       |
| 119                               | 54       | 40                 | 52       | 167-168                           | 77-78    | 76-77              | 77       |
| 120                               | 54       | 40                 | 53       | 169-170                           | 78-79    | 78                 | 78       |
| 121-122                           | 54-55    | 45                 | 54       | 171-172                           | 80-81    | 79                 | 79       |
| 123                               | 55       | 50                 | 55       | 173                               | 81       | 80                 | 80       |
| 124-125                           | 56       | 50                 | 56       | 174-175                           | 82       | 81                 | 81       |
| 126-127                           | 56-57    | 50-54              | 57       | 176-177                           | 83       | 82                 | 82       |
| 128-129                           | 57-58    | 54-57              | 58       | 178                               | 84       | 83                 | 83       |
| 130-131                           | 58-59    | 57                 | 59       | 179                               | 84       | 83                 | 84       |
| 132-133                           | 59       | 59                 | 60       | 180-181                           | 85-86    | 84-85              | 85       |
| 134-135                           | 59-60    | 59-61              | 61       | 182-183                           | 87-88    | 86                 | 86       |
| 136-137                           | 60       | 61-62              | 62       | - 184                             | 89       | 87                 | 87       |
| 138-139                           | 61       | 62                 | 63 - 1   | 185                               | 89       | 87                 | 88       |
| 140-141                           | 62       | 64                 | 64       | 186-187                           | 90       | 88-89              | 89       |
| 142-143                           | 63-64    | 64-65              | 65       | 188-189                           | 91-92    | 90                 | 90       |
| 144-145                           | 64-65    | 65                 | 66       | 190-191                           | 93-94    | 91-91              | 91       |
| 146-147                           | 65-66    | 65-66              | 67       | 192-193                           | 94-95    | 92-93              | 92       |
| 148-149                           | 66-67    | 66                 | 68       | 194-195                           | 95-96    | 93-94              | 93       |
| 150-151                           | 67       | 68                 | 69       | 196                               | 97       | 94                 | 94       |

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: OPERATORS/FOOD - OF (ARMY) (Continued)

Subtests: NO + VE + MC + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | l .                               | Recruits | Applicant         | Combined |
| 197-198                           | 97-98    | 95                 | 95       | 232                               | 123      | 118               | 120      |
| 199-200                           | 98-99    | 96                 | 96       | 233-234                           | 124      | 118-119           | 121      |
| 201                               | 99       | 97                 | 97       | 235                               | 125      | 120               | 122      |
| 202-203                           | 100      | 98                 | 98       | 236-237                           | 125-126  | 121               | 123      |
| 204-205                           | 101-102  | 99                 | 99       | 238-239                           | 126-127  | 122-123           | 124      |
| 206-207                           | 103-104  | 100                | 100      | 240-241                           | 128      | 123-124           | 125      |
| 208                               | 104      | 101                | 101      | 242                               | 129      | 125               | 126      |
| 209                               | 105      | 102                | 102      | 243-244                           | 129-130  | 125               | 127      |
| 210-211                           | 105-106  | 103                | 103      | 245                               | 131      | 126               | 128      |
| 212-213                           | 107-108  | 104                | 104      | 246                               | 132      | 126               | 129      |
| 214                               | 109      | 105                | 105      | 247                               | 133      | 127               | 130      |
| 215                               | 110      | 105                | 106      | 248                               | 134      | 127               | 131      |
| 216-217                           | 110-111  | 106-107            | 107      | 249                               | 135      | 128               | 133      |
| 218                               | 112      | 107                | 108      | 250                               | 136      | 130               | 135      |
| 219                               | 113      | 108                | 109      | 251                               | 137      | 131               | 137      |
| 220                               | 113      | 109                | 110      | 252                               | 138      | 133               | 141      |
| 221                               | 114      | 109                | 111      | 253                               | 140      | 137               | 144      |
| 222                               | 115      | 111                | 112      | 254                               | 140      | 141               | 147      |
| 223-224                           | 116-117  | 112                | 113      | 255                               | 140      | 141               | 150      |
| 225                               | 117      | 113                | 114      | 256                               | 140      | 147               | 152      |
| 226                               | 118      | 114                | 115      | 257                               | 140      | 147               | 153      |
| 227-228                           | 119-120  | 116                | 116      | 258                               | 140      | 155               | 155      |
| 229                               | 121      | 117                | 117      |                                   |          |                   |          |
| 230                               | 122      | 117                | 118      |                                   |          |                   |          |
| 231                               | 123      | 117                | 119      |                                   |          |                   |          |

APPENDIX C
CONVERSION TABLES FOR APTITUDE COMPOSITES

## ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: MECHANICAL MAINTENANCE - MM (ARMY)

Subtests: NO + EI + MC + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | 1                                 | Recruits | Applicant          | Combined |
| 84-100                            | 41       | 40                 | 40       | 153-154                           | 67-68    | 68-70              | 70       |
| 101-116                           | 41-45    | 40                 | 41       | 155-156                           | 69-70    | 70                 | 71       |
| 117                               | 50       | 40                 | 43       | 157                               | 70       | 71                 | 72       |
| 118                               | 52       | 40                 | 45       | 158-159                           | 71-72    | 71-73              | 73       |
| 119                               | 53       | 40                 | 48       | 160-161                           | 73       | 73                 | 74       |
| 120                               | 54       | 40                 | 50       | 162-163                           | 74-75    | 75                 | 75       |
| 121                               | 54       | 40                 | 51       | 164-165                           | 76       | 75-76              | 76       |
| 122                               | 55       | 40                 | 52       | 166-167                           | 77       | 76-77              | 77       |
| 123                               | 55       | 40                 | 53       | 168                               | 78       | 77                 | 78       |
| 124-125                           | 56       | 45                 | 54       | 169-170                           | 79       | 78                 | 79       |
| 126                               | 56       | 45                 | 55       | 171-172                           | 80-81    | 79-80              | 80       |
| 127-128                           | 56-57    | 50                 | 56       | 173-174                           | 82       | 80-81              | 81       |
| 129-130                           | 57       | 50-54              | 57       | 175                               | 83       | 82                 | 82       |
| 131-132                           | 57-58    | 54-57              | 58       | 176                               | 84       | 82                 | 83       |
| 133-134                           | 58       | 57                 | 59       | 177-178                           | 84-85    | 83-84              | 84       |
| 135                               | 59       | 57                 | 60       | 179-180                           | 86-87    | 85-86              | 85       |
| 136-137                           | 59       | 59                 | 61       | 181                               | 88       | 86                 | 86       |
| 138 - 139                         | 50       | 61                 | 62       | 182-183                           | 88-89    | 87                 | 87       |
| 1.0 1.1                           | 61       | 61-62              | 63       | 184                               | 90       | 88                 | 88       |
| . 1.3                             | 62       | 62-64              | 64       | 185                               | 91       | 88                 | 89       |
| 1 . 5                             | 63       | 64-65              | 65       | 186-187                           | 91-92    | 89-90              | 90       |
| 1.00 1.00                         | tole     | 65                 | 66       | 188-189                           | 92-93    | 91                 | 91       |
| 1.8                               | 65       | 66                 | 67       | 190-191                           | 94       | 92                 | 92       |
| 1.9 [ 30                          | 65-66    | 66                 | 68       | 192-193                           | 95-96    | 93                 | 93       |
| 51 152                            | 66-67    | 68                 | 69       | 194-195                           | 96-97    | 94-95              | 94       |

## ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: MECHANICAL MAINTENANCE - MM (ARMY) (Continued)

Subtests: NO + EI + MC + AS

| Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          | Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          |
|-----------------------------------|--------------------|-----------|----------|-----------------------------------|--------------------|-----------|----------|
|                                   | Recruits           | Applicant | Combined | I                                 | Recruits           | Applicant | Combined |
| 196-197                           | 97~98              | 95-96     | 95       | 234                               | 124                | 118       | 120      |
| 198-199                           | 98-99              | 96-97     | 96       | 235-236                           | 124-125            | 119-120   | 121      |
| 200                               | 100                | 97        | 97       | 237                               | 125                | 121       | 122      |
| 201-202                           | 100-101            | 98        | 98       | 238-239                           | 126-127            | 121-122   | 123      |
| 203-204                           | 101-102            | 99        | 99       | 240-241                           | 127-128            | 123       | 124      |
| 205-206                           | 103-104            | 100       | 100      | 242                               | 128                | 123       | 125      |
| 207                               | 105                | 101       | 101      | 243-244                           | 129                | 124-125   | 126      |
| 208                               | 105                | 102       | 102      | 245-246                           | 130                | 126       | 127      |
| 209-210                           | 106-107            | 103       | 103      | 247                               | 131                | 127       | 128      |
| 211-212                           | 108                | 104       | 104      | 248                               | 131                | 127       | 129      |
| 213-214                           | 109-110            | 105       | 105      | 249                               | 132                | 127       | 130      |
| 215                               | 111                | 106       | 106      | 250                               | 133                | 128       | 131      |
| 216-217                           | 111-112            | 107       | 107      | 251                               | 134                | 130       | 133      |
| 218                               | 112                | 107       | 108      | 252                               | 135                | 131       | 135      |
| 219                               | 113                | 108       | 109      | 253                               | 136                | 133       | 137      |
| 220                               | 14                 | 109       | 110      | 254                               | 137                | 135       | 138      |
| 221                               | 114                | 109       | 111      | 255                               | 138                | 137       | 141      |
| 222-223                           | 115-116            | 111       | 112      | 256                               | 140                | 137       | 143      |
| 224                               | 117                | 112       | 113      | 257                               | 140                | 141       | 145      |
| 225-226                           | 118-119            | :12-113   | 114      | 258                               | 140                | 141       | 148      |
| 227                               | 119                | 114       | 115      | 259                               | 140                | 147       | 150      |
| 228-229                           | 120                | 114-116   | 116      | 260                               | 140                | 147       | 151      |
| 230                               | 121                | 116       | 117      | 261                               | 140                | 147       | 153      |
| 231-232                           | 121-122            | 117       | 118      | 262                               | 140                | 147       | 155      |
| 233                               | 123                | 1118      | 119      |                                   |                    |           |          |

APPENDIX C

## ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: GENERAL MAINTENANCE - GM (ARMY AND MARINES)

Subtests: MK + EI + GS + AS

| Sum of Subtest<br>Standard Scores | Composite<br>Score |           | . :      | Sum of Subtest<br>Standard Scores | Composite<br>Score |           |         |
|-----------------------------------|--------------------|-----------|----------|-----------------------------------|--------------------|-----------|---------|
|                                   | Recruits           | Applicant | Combined |                                   | Recruits           | Applicant | Combine |
| 91-107                            | 41-50              | 40        | 40       | 155                               | 71                 | 71        | 72      |
| 108-122                           | 41-50              | 40        | 41       | 156                               | 72                 | 71        | 73      |
| 123                               | 52                 | 40        | 44       | 157-158                           | 73-75              | 73        | 74      |
| 124                               | 53                 | 40        | 47       | 159-160                           | 75                 | 73-75     | 75      |
| 125                               | 54                 | 40        | 50       | 161-162                           | 76                 | 75-76     | 76      |
| 126                               | 54                 | 40        | 51       | 163-164                           | 77~78              | 76-77     | 78      |
| 127                               | 55                 | 40        | 53       | 165-166                           | 78-79              | 77-78     | 79      |
| 128-129                           | 56                 | 45        | 54       | 167-168                           | 80                 | 78-79     | 80      |
| 130                               | 57                 | 50        | 55       | 169-170                           | 81                 | 79-80     | 81      |
| 131                               | 57                 | 50        | 56       | 171                               | 82                 | 81        | 82      |
| 132-133                           | 57-58              | 50-54     | 57       | 172-173                           | 83                 | 81-82     | 82      |
| 134                               | 58                 | 54        | 58       | 174                               | 84                 | 83        | 83      |
| 135-136                           | 59                 | 57        | 59       | 175-176                           | 85-86              | 84-85     | 84      |
| 137                               | 59                 | 57        | 60       | 177                               | 86                 | 85        | 85      |
| 138-139                           | 60                 | 59        | 61       | 178-179                           | 87-88              | 86        | 86      |
| 140-141                           | 61-62              | 61        | 62       | 180                               | 89                 | 87        | 87      |
| 142                               | 63                 | 62        | 63       | 181-182                           | 89-90              | 88-89     | 88      |
| 143                               | 64                 | 62        | 64       | 183                               | 91                 | 89        | 89      |
| 144-145                           | 64-65              | 64        | 65       | 184~185                           | 91-92              | 90        | 90      |
| 146                               | 65                 | 65        | 66       | 186-187                           | 93-94              | 91-92     | 91      |
| 147                               | 66                 | 65        | 67       | 188-189                           | 94-95              | 92-93     | 92      |
| 148-149                           | 66-67              | 66        | 68       | 190-191                           | 96-97              | 93-94     | 93      |
| 150                               | 67                 | 66        | 69       | 192-193                           | 97-98              | 94-95     | 94      |
| 151-152                           | 67-68              | 68        | 70       | 194                               | 98                 | 95        | 95      |
| 153-154                           | 69-70              | 70        | 71       | 195-196                           | 99                 | 96        | 96      |

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: GENERAL MAINTENANCE - GM (ARMY AND MARINES) (Continued)

Subtests: MK + EI + GS + AS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | c        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | l                                 | Recruits | Applicant         | Combined |
| 197                               | 100      | 97                 | 97       | 240-242                           | 124-125  | 120-121           | 122      |
| 198-199                           | 100-101  | 97-98              | 97       | 243-345                           | 125-126  | 121-122           | 123      |
| 200-201                           | 101-102  | 99                 | 98       | 246-247                           | 126-127  | 123               | 124      |
| 202-203                           | 102-103  | 100                | 100      | 248-249                           | 127-128  | 123-124           | 125      |
| 204-205                           | 103-104  | 101                | 101      | 250-251                           | 128-129  | 125               | 126      |
| 206-207                           | 105      | 102-103            | 102      | 252-253                           | 129-130  | 126               | 127      |
| 208-209                           | 106      | 103                | 103      | 254                               | 130      | 127               | 128      |
| 210-211                           | 107-108  | 104                | 104      | 255                               | 131      | 127               | 129      |
| 212-213                           | 108-109  | 105                | 105      | 256                               | 131      | 127               | 130      |
| 214                               | 109      | 106                | 106      | 257                               | 132      | 128               | 131      |
| 215-216                           | 110      | 107                | 107      | 258                               | 132      | 130               | 132      |
| 217                               | 111      | 108                | 108      | 259                               | 133      | 130               | 133      |
| 218-219                           | 112      | 109                | 109      | 260                               | 134      | 131               | 135      |
| 220                               | 113      | 110                | 110      | 261                               | 134      | 133               | 137      |
| 221                               | 114      | 111                | 111      | 262                               | 136      | 135               | 138      |
| 222                               | 114      | 111                | 112      | 263                               | 138      | 137               | 141      |
| 223-224                           | 115-116  | 112                | 113      | 264                               | 140      | 137               | 143      |
| 225-226                           | 116-117  | 113-114            | 114      | 265                               | 140      | 141               | 145      |
| 227                               | 118      | 114                | 115      | 266                               | 140      | 147               | 147      |
| 228-229                           | 118-119  | 115-116            | 116      | 267                               | 140      | 147               | 149      |
| 230-231                           | 119-120  | 116                | 117      | 268                               | 140      | 155               | 151      |
| 232-233                           | 120-121  | 117                | 118      | 269                               | 140      | 155               | 153      |
| 234-235                           | 121-122  | 117-118            | 119      | 270                               | 140      | 155               | 155      |
| 236-237                           | 122-123  | 118                | 120      | •                                 | -        |                   |          |
| 238-239                           | 123-124  | 119                | 121      |                                   |          |                   |          |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: CLERICAL - CL (ARMY AND MARINES)

Subtests: NO + CS + VE

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | c        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | l                                 | Recruits | Applicant         | Combined |
| 63-71                             | 40-50    | 40                 | 40       | 113                               | 67       | 66                | 69       |
| 72-78                             | 52-55    | 40                 | 40       | 114-115                           | 68       | 68                | 70       |
| 79                                | 56       | 40                 | 43       | 116-117                           | 70       | 68-70             | 71       |
| 80                                | 56       | 40                 | 45       | 118                               | 71       | 70                | 72       |
| 81                                | 56       | 40                 | 47       | 119-120                           | 72-73    | 71                | 73       |
| 82                                | 57       | 40                 | 48       | 121-122                           | 74-75    | 73                | 74       |
| 83                                | 57       | 40                 | 50       | 123-124                           | 75-76    | 75                | 75       |
| 84                                | 57       | 40                 | 51       | 125-126                           | 77       | 75-76             | 76       |
| 85                                | 58       | 40                 | 52       | 127                               | 78       | 76                | 77       |
| 86                                | 58       | 45                 | 53       | 128-129                           | 79-80    | 77                | 78       |
| 87                                | 59       | 45                 | 54       | 130                               | 81       | 78                | 79       |
| 88                                | 59       | 45                 | 55       | 131-132                           | 82-83    | 78-79             | 80       |
| 89-90                             | 60       | 50                 | 56       | 133                               | 84       | 80                | 81       |
| 91-92                             | 56-57    | 54                 | 57       | 134                               | 85       | 81                | 82       |
| 93-94                             | 57       | 54-57              | 58       | 135                               | 86       | 82                | 83       |
| 95-96                             | 58       | 57                 | 59       | 136                               | 87       | 83                | 84       |
| 97                                | 59       | 59                 | 60       | 137-138                           | 88-89    | 84-85             | 85       |
| 98-99                             | 59-60    | 59                 | 61       | 139                               | 90       | 85                | 86       |
| 100-101                           | 60-61    | 61                 | 62       | 140                               | 91       | 86                | 87       |
| 102-103                           | 61-62    | 61-62              | 63       | 141                               | 92       | 87                | 88       |
| 104-105                           | 62-63    | 62-64              | 64       | 142                               | 93       | 88                | 89       |
| 106-107                           | 63-64    | 64                 | 65       | 143                               | 94       | 89                | 90       |
| 108-109                           | 64-65    | 65                 | 66       | 144                               | 95       | 90                | 91       |
| 110-111                           | 65-66    | 65-66              | 67       | 145-146                           | 96       | 91-92             | 92       |
| 112                               | 67       | 66                 | 68       | 147                               | 97       | 92                | 93       |

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: CLERICAL - CL (ARMY AND MARINES) (Continued)

Subtests: NO + CS + VE

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | 1                                 | Recruits | Applicant          | Combined |
| 148                               | 97       | 93                 | 94       | 176                               | 124      | 118                | 119      |
| 149-150                           | 98-99    | 93-95              | 95       | 177                               | 125      | 118                | 120      |
| 151                               | 100      | 96                 | 96       | 178-179                           | 125-126  | 119-120            | 121      |
| 152                               | 101      | 97                 | 97       | 180                               | 127      | 121                | 122      |
| 153                               | 102      | 98                 | 98       | 181-182                           | 127-128  | 121-122            | 123      |
| 154                               | 103      | 99                 | 99       | 183                               | 129      | 123                | 124      |
| 155-156                           | 104-105  | 99-100             | 100      | 184                               | 130      | 123                | 125      |
| 157                               | 106      | 101                | 101      | 185                               | 131      | 124                | 126      |
| 158                               | 107      | 103                | 102      | 186-187                           | 131-132  | 124-125            | 127      |
| 159                               | 108      | 103                | 103      | 188                               | 132      | 126                | 128      |
| 160                               | 109      | 104                | 104      | 189                               | 132      | 126                | 129      |
| 161                               | 110      | 105                | 105      | 190                               | 133      | 127                | 130      |
| 162                               | 111      | 105                | 106      | 191                               | 134      | 130                | 131      |
| 163                               | 112      | 107                | 107      | 192                               | 134      | 131                | 133      |
| 164                               | 113      | 107                | 108      | 193                               | 135      | 133                | 135      |
| 165                               | 114      | 109                | 109      | 194                               | 135      | 133                | 137      |
| 166                               | 115      | 110                | 110      | 195                               | 136      | 135                | 138      |
| 167                               | 116      | 111                | 111      | 196                               | 137      | 135                | 141      |
| 168                               | 117      | 111                | 112      | 197                               | 138      | 137                | 144      |
| 169-170                           | 118-119  | 112-113            | 113      | 198                               | 139      | 137                | 147      |
| 171                               | 120      | 114                | 114      | 199                               | 140      | 141                | 149      |
| 172                               | 120      | 115                | 115      | 200                               | 140      | 141                | 152      |
| 173                               | 121      | 116                | 116      | 201                               | 140      | 147                | 155      |
| 174                               | 122      | 117                | 117      |                                   |          |                    |          |
| 175                               | 123      | 117                | 118      |                                   |          |                    |          |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: SKILLED TECHNICAL - ST (ARMY)

Subtests: VE + MK + MC + GS

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | C        | Composite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|--------------------|----------|
|                                   | Recruits | Applicant          | Combined | I                                 | Recruits | Applicant          | Combined |
| 91-105                            | 41       | 40                 | 40       | 151-152                           | 68-69    | 68-70              | 70       |
| 106-109                           | 41       | 40                 | 41       | 153-154                           | 69-70    | 70-71              | 71       |
| 120                               | 41       | 40                 | 43       | 155                               | 71       | 71                 | 72       |
| 121                               | 41       | 40                 | 47       | 156-157                           | 72       | 73                 | 73       |
| 122                               | 41       | 40                 | 47       | 158-159                           | 73-74    | 73-75              | 74       |
| 123                               | 41       | 40                 | 49       | 160-161                           | 75       | 75                 | 75       |
| 124                               | 44       | 40                 | 50       | 162-163                           | 76-77    | 76                 | 76       |
| 125                               | 45       | 45                 | 51       | 164-165                           | 78       | 76-77              | 77       |
| 126                               | 51       | 45                 | 52       | 166                               | 79       | 77                 | 78       |
| 127                               | 52       | 45                 | 53       | 167-168                           | 79-80    | 78-78              | 79       |
| 128                               | 53       | 50                 | 55       | 169-170                           | 80-81    | 79-80              | 80       |
| 129-130                           | 55       | 50                 | 56       | 170-171                           | 82-83    | 81                 | 81       |
| 131-132                           | 56       | 54                 | 57       | 173                               | 84       | 82                 | 82       |
| 133                               | 57       | 54                 | 58       | 174                               | 84       | 83                 | 83       |
| 15-                               | 58       | 57                 | 59       | 175-176                           | 85-86    | 84                 | 84       |
| 135                               | 58       | 57                 | 60       | 177-178                           | 87       | 85-86              | 85       |
| 136-137                           | 59       | 59                 | 61       | 179                               | 88       | 87                 | 86       |
| 138-139                           | 60       | 61-62              | 62       | 180                               | 89       | 87                 | 87       |
| 140                               | 61       | 64                 | 63       | 181-182                           | 90-91    | 88-89              | 88       |
| 141-142                           | 61-62    | 64-65              | 64       | 183                               | 92       | 89                 | 89       |
| 143-144                           | 63-64    | 65                 | 65       | 184                               | 92       | 90                 | 90       |
| 145-146                           | 65       | 65-66              | 66       | 185-186                           | 93-94    | 90-91              | 91       |
| 147                               | 66       | 66                 | 67       | 187-188                           | 94-95    | 91-92              | 92       |
| 148                               | 66       | 66                 | 68       | 189-190                           | 95-96    | 92-93              | 93       |
| 149-150                           | 67-68    | 68                 | 69       | 191-192                           | 97       | 93-94              | 94       |

# ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: SKILLED TECHNICAL - ST (ARMY) (Continued)

Subtests: VE + MK + MC + GS

| Sum of Subtest<br>Standard Scores   |  | Composite<br>Score  |   | Sum of Subtest<br>Standard Scores   | (  | Composite<br>Score   |  |
|---|--|---|---|---|--|--|--|
|   | Recruits   | Applicant   | Combined  | i   | Recourts   | Applicant  | Combined   |
| 193-194<br>195-196<br>197<br>198-199<br>200-201<br>202-203<br>204-205<br>206<br>207-208 | 98<br>99<br>100<br>100<br>101<br>102<br>103–104<br>104<br>105                        | 94-95<br>95-96<br>96<br>97-98<br>98-99<br>99-100<br>100-101<br>102<br>103 | 95<br>96<br>97<br>98<br>99<br>100<br>101<br>102<br>103      | 237-238<br>239-240<br>241-242<br>243-245<br>246-247<br>248-249<br>250-251<br>252-253<br>254 | 122-123<br>123<br>124<br>124-125<br>126<br>127<br>128<br>129-130 | 118<br>119-120<br>120-121<br>121-122<br>123<br>123<br>124<br>125-126 | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 |
| 209-210<br>211-212  | 106-107<br>108   | 104   | 104   | 255   | 130<br>131   | 126<br>127   | 128<br>129   |
| 213<br>214-215<br>216<br>217-218  | 108<br>109<br>110<br>111<br>111-112  | 105<br>106<br>107<br>108<br>109   | 105<br>106<br>107<br>108<br>109                             | 256<br>257<br>258<br>259<br>260   | 131<br>132<br>132<br>133<br>134                                  | 128<br>130<br>131<br>133<br>135                                      | 130<br>131<br>132<br>133<br>135                      |
| 223-224<br>225-226<br>1<br>227-228<br>229-230<br>231-232<br>233-234                     | 112<br>113<br>113-114<br>114-115<br>115-116<br>16-117<br>118<br>119<br>120<br>21-122 | 110<br>111<br>111-112<br>112<br>113<br>114<br>114-115<br>116<br>117       | 110<br>111<br>112<br>113<br>114<br>115<br>116<br>117<br>118 | 261<br>262<br>263<br>264<br>265<br>266<br>267<br>268  | 135<br>136<br>138<br>139<br>140<br>140<br>140                    | 137<br>137<br>137<br>141<br>141<br>147<br>147                        | 136<br>138<br>141<br>145<br>147<br>150<br>153<br>155 |

APPENDIX C

## ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: GENERAL TECHNICAL - GT (ARMY AND MARINES)

Subtests: VE + AR

| Sum of Subtest<br>Standard Scores | Composite<br>Score |           |          | Sum of Subtest<br>Standard Scores |          |           |                      |
|-----------------------------------|--------------------|-----------|----------|-----------------------------------|----------|-----------|----------------------|
|                                   | Recruits           | Applicant | Combined | 1                                 | Recruits | Applicant | Combined             |
| 45-51                             | 46                 | 40        | 40       | 75                                | 72       | 71        | 72                   |
| 52-56                             | 46                 | 40        | 41       | 76                                | 73       | 73        | 73                   |
| 57                                | 46                 | 40        | 43       | 77                                | 74       | 73        | 73<br>74             |
| 58                                | 46                 | 40        | 43       | 78                                | 75       | 75        | 7 <del>4</del><br>75 |
| 59                                | 46                 | 40        | 50       | 79                                | 76       | 75        | 76                   |
| 60                                | 52                 | 45        | 52       | 80                                | 77       | 76        | 77                   |
| 61                                | 55                 | 50        | 54       | 81                                | 79       | 77        | 78                   |
| 62                                | 56                 | 50        | 56       | 82                                | 80       | 78        | 79                   |
| 63                                | 56                 | 54        | 57       | 83                                | 81       | 79        | 80                   |
| 64                                | 57                 | 57        | 59       | 84                                | 82       | 80        | 81                   |
| 65                                | 59                 | 59        | 61       | 85                                | 83       | 81        | 82                   |
| 66                                | 60                 | 61        | 62       | 86                                | 85       | 82        | 83                   |
| 67                                | 61                 | 61        | 62       | 87                                | 86       | 83        | 84                   |
| 68                                | 62                 | 62        | 63       | 88                                | 87       | 85        | 85                   |
| 69                                | 63                 | 65        | 65       | 89                                | 88       | 86        | 86                   |
| 70                                | 65                 | 65        | 66       | 90                                | 89       | 87        | 87                   |
| 71                                | 66                 | 66        | 67       | 91                                | 90       | 88        | 89                   |
| 72                                | 68                 | 68        | 68       | 92                                | 92       | 89        | 90                   |
| 73                                | 69                 | 68        | 70       | 93                                | 93       | 91        | 90                   |
| 74                                | 71                 | 70        | 71       | 94                                | 94       | 92        | 91                   |

## ASVAB 8AX CONVERSION TABLE

APTITUDE COMPOSITE: GENERAL TECHNICAL - GT (ARMY AND MARINES) (Continued)

Subtests: VE + AR

| Sum of Subtest<br>Standard Scores |          | Composite<br>Score |          | Sum of Subtest<br>Standard Scores | С        | omposite<br>Score |          |
|-----------------------------------|----------|--------------------|----------|-----------------------------------|----------|-------------------|----------|
|                                   | Recruits | Applicant          | Combined | ı                                 | Recruits | Applicant         | Combined |
| 95                                | 95       | 93                 | 93       | 116                               | 117      | 115               | 115      |
| 96                                | 96       | 94                 | 94       | 117                               | 118      | 116               | 117      |
| 97                                | 97       | 95                 | 95       | 118                               | 119      | 117               | 118      |
| 98                                | 98       | 96                 | 96       | 119                               | 120      | 118               | 119      |
| 99                                | 99       | 97                 | 97       | 120                               | 122      | 118               | 120      |
| 100                               | 100      | 98                 | 98       | 121                               | 123      | 120               | 121      |
| 101                               | 101      | 99                 | 99       | 122                               | 124      | 121               | 122      |
| 102                               | 102      | 100                | 100      | 123                               | 125      | 122               | 123      |
| 103                               | 103      | 101                | 102      | 124                               | 126      | 123               | 125      |
| 104                               | 104      | 103                | 103      | 125                               | 128      | 125               | 126      |
| 105                               | 106      | 104                | 104      | 126                               | 130      | 126               | 128      |
| 106-107                           | 106-107  | 104-105            | 105      | 127                               | 132      | 127               | 130      |
| 108                               | 108      | 106                | 106      | 128                               | 137      | 133               | 135      |
| 109                               | 110      | 107                | 107      | 129                               | 140      | 137               | 143      |
| 110                               | 111      | 108                | 109      | 130                               | 140      | 141               | 155      |
| 111                               | 112      | 109                | 110      |                                   |          |                   |          |
| 112                               | 113      | 111                | 111      |                                   |          |                   |          |
| 113                               | 114      | 112                | 112      |                                   |          |                   |          |
| 114                               | 115      | 113                | 113      |                                   |          |                   |          |
| 115                               | 116      | 114                | 114      |                                   |          |                   |          |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

AIR FORCE APTITUDE COMPOSITE: MECHANICAL (M)

Subtests: MC + GS +2AS

|                   |          | sum of subtest standard scores |          |
|-------------------|----------|--------------------------------|----------|
| Aptitude<br>Index | Recruits | Applicants                     | Combined |
| I                 | 84-121   | 87-129                         | 84-123   |
| 5                 | 122-143  | 130-140                        | 124-138  |
| 10                | 144-154  | 141-143                        | 139-152  |
| 15                | 155-64   | 154-166                        | 153-163  |
| 20                | 165-173  | 167-173                        | 164-172  |
| 25                | 174-182  | 174-182                        | 173-182  |
| 30                | 183-188  | 183-189                        | 183-189  |
| 35                | 189-192  | 190-195                        | 190-195  |
| 40                | 193-196  | 196-200                        | 196-200  |
| 45                | 197-201  | 201~206                        | 201-206  |
| 50                | 202-206  | 207-212                        | 207-212  |
| 55                | 207-210  | 213-218                        | 213-217  |
| 60                | 211-216  | 219-223                        | 218-222  |
| 65                | 217-222  | 224-227                        | 223-225  |
| 70                | 223-226  | 228-230                        | 226-230  |
| 75                | 227231   | 231-237                        | 231-235  |
| 80                | 232-236  | 238-243                        | 236-241  |
| 85                | 237-240  | 244-251                        | 242-248  |
| 90                | 241-251  | 252-257                        | 249-255  |
| 95                | 252-264  | 258-264                        | 256-264  |

APPENDIX C

## ASVAB 8AX CONVERSION TABLE

## AIR FORCE APTITUDE COMPOSITE ADMINISTRATIVE (A)

Subtests: NO + CS +VE

|                   | sum      | of subtest standard score | <u>s</u> |
|-------------------|----------|---------------------------|----------|
| Aptitude<br>Index | Recruits | Applicants                | Combined |
| 1                 | 63-92    | 60-93                     | 64-90    |
| 5                 | 93-111   | 94-107                    | 91-105   |
| 10                | 112-120  | 108-120                   | 106-118  |
| 15                | 121-127  | 121-131                   | 119-129  |
| 20                | 128-132  | 132-136                   | 130-135  |
| 25                | 133-136  | 137-142                   | 136-141  |
| 30                | 137-140  | 143-147                   | 142-146  |
| 35                | 141-143  | 148-150                   | 147-149  |
| 40                | 144-156  | 151-152                   | 150-152  |
| 45                | 147-149  | 153-155                   | 153-155  |
| 50                | 150-153  | 156-159                   | 156-159  |
| 55                | 154-156  | 160-162                   | 160-162  |
| 60                | 157-159  | 163-165                   | 163-165  |
| 65                | 160-162  | 166-169                   | 166-168  |
| 70                | 163-166  | 170-172                   | 169-171  |
| 75                | 167-169  | 173-176                   | 172-174  |
| 80                | 170-173  | 177-181                   | 175-179  |
| 85                | 174-177  | 182-187                   | 180-184  |
| 90                | 178-187  | 188-192                   | 185-191  |
| 95                | 188-201  | 193-204                   | 192-201  |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

### AIR FORCE APTITUDE COMPOSITE GENERAL (G)

Subtests: VE + AR

|                   | sum      | of subtest standard sc | ores     |
|-------------------|----------|------------------------|----------|
| Aptitude<br>Index | Recruits | Applicants             | Combined |
| 1                 | 45-63    | 45-63                  | 45-62    |
| 5                 | 64-70    | 64-68                  | 63-68    |
| 10                | 71-75    | 69-75                  | 69-75    |
| 15                | 76-80    | 76-82                  | 76-81    |
| 20                | 81-84    | 83-87                  | 82-86    |
| 25                | 85-88    | 88-91                  | 87-90    |
| 30                | 89-91    | 92-94                  | 91-94    |
| 35                | 92-94    | 95-97                  | 95-96    |
| 40                | 95-96    | 98-99                  | 97-99    |
| 45                | 97-99    | 100-102                | 100-101  |
| 50                | 100-102  | 103-104                | 102-104  |
| 55                | 103-105  | 105~108                | 105-108  |
| 60                | 106-108  | 109-111                | 109-110  |
| 65                | 109-111  | 112-113                | 111-113  |
| 70                | 112-113  | 114-116                | 114-115  |
| 75                | 114-117  | 117-119                | 116-117  |
| 80                | 118-119  | 120-122                | 118-121  |
| 85                | 120-122  | 123-125                | 122-124  |
| 90                | 123-126  | 127-127                | 125-127  |
| 95                | 127-130  | 128-130                | 128-130  |

APPENDIX C

### ASVAB 8AX CONVERSION TABLE

### AIR FORCE APTITUDE COMPOSITE ELECTRONICS (E)

Subtests: AR + MK + EI + GS

|                          | su       | m of subtest standard scor | res      |
|--------------------------|----------|----------------------------|----------|
| Aptitude<br><u>Index</u> | Recruits | Applicants                 | Combined |
| 1                        | 95-135   | 104-137                    | 95-134   |
| 5                        | 136-150  | 138-146                    | 135-145  |
| 10                       | 151-158  | 147-157                    | 146-155  |
| 15                       | 159-164  | 158-167                    | 156-166  |
| 20                       | 165-171  | 168-173                    | 167-173  |
| 25                       | 172-176  | 174-180                    | 174-180  |
| 30                       | 177-181  | 181-186                    | 181-186  |
| 35                       | 182-186  | 187-191                    | 187-190  |
| 40                       | 187-190  | 192-195                    | 191-194  |
| 45                       | 191-196  | 196-200                    | 195-200  |
| 50                       | 197-202  | 201-206                    | 201-206  |
| 55                       | 203-207  | 207-212                    | 207-212  |
| 60                       | 208-212  | 213-218                    | 213-217  |
| 65                       | 213-219  | 219-223                    | 218-223  |
| 70                       | 220-224  | 224-229                    | 224-229  |
| 75                       | 225-231  | 230-238                    | 230-234  |
| 80                       | 232-239  | 239-247                    | 235-243  |
| 85                       | 240-248  | 248-256                    | 244-253  |
| 90                       | 249-262  | 257-263                    | 254-262  |
| 95                       | 263-282  | 264-282                    | 263-282  |

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